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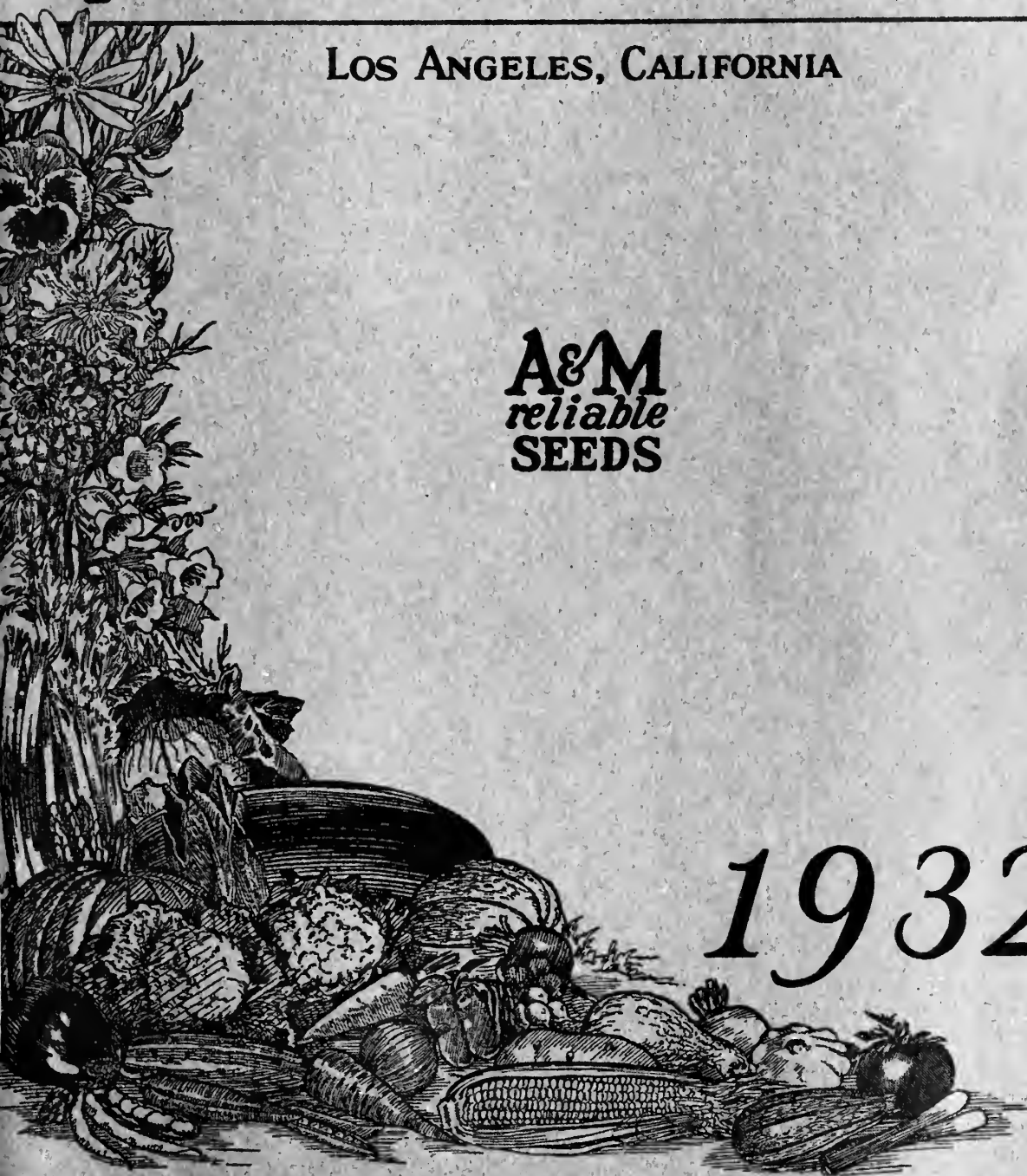
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AGGELER & MUSSER SEED CO. ▾

LOS ANGELES, CALIFORNIA

A&M
reliable
SEEDS



1932

THIRTY-NINTH ANNUAL CATALOG

General Directions for Ordering

NAME and ADDRESS—Be sure that your name and address are written plainly. Write in the proper place on the order blank Post Office, County, Rural Delivery, Box Number and nearest Express Office.

ORDER EARLY—We endeavor to ship all orders within 24 hours after we receive them, but during the rush season from February to April delays are sometimes unavoidable. If patrons can anticipate their wants and order early it will be to our mutual benefit.

REMITTANCES—Should be made by post office money order, express money order, or bank draft, for a sufficient amount to cover the entire order and postage, if any. Do not send currency. Should it be lost there is no recourse. Stamps of two cent denomination will be accepted for small amounts.

PARCEL POST—Unless otherwise stated, we pay postage on all seeds and bulbs quoted in this catalogue. On orders of larger quantity at "not prepaid" prices stated in the catalogue you pay the postage, express or freight. In such cases it will be necessary for you to send postage extra if you want it by parcel post, but if it is to be sent by freight or express you can pay the transportation charges at your freight or express office when you receive the goods. If you do not know the zone you are in from Los Angeles your postmaster or R. F. D. carrier can tell you. Parcel Post rates apply on weights up to 70 pounds in all zones. Parcel Post rates are usually cheaper than express, with the added advantage of having the parcel delivered to your door.

TO FIGURE POSTAGE—First figure the total weight in pounds on "not prepaid" items you are ordering, then find zone you are in from Los Angeles. If you have 10 pounds of "not prepaid" items and you are in the first or second zone the postage would be 16¢, the third zone 26¢, the fourth zone 44¢, etc., straight across the chart giving the parcel post zone rates. (See chart of parcel post zone rates.) If larger quantities are wanted it will be necessary to put the order up in two or more parcels and the postage must be figured on parcel individually.

FOREIGN PARCEL POST—We pay postage on all Flower Seeds, Vegetable Seeds and Tree Seeds up to 10 lbs. For Field and all other seeds and for other articles listed in this catalogue add 14¢ per lb. for postage.

ERRORS—While we exercise the utmost care in filling orders we find that occasionally errors occur, in which event we ask you to please notify us promptly and we suggest that you keep copy of your orders for comparison.

PRICES—In the event of unforeseen circumstances prices are subject to change without notice.

NON-WARRANTY: Note—There are so many contingencies to be encountered in growing plants from seed and in setting out plants that are dependent on the weather and other conditions over which we have no control, that success in planting is not altogether dependent on the seed or plant. We will send out only seed which we believe will grow and produce the kind of plant and variety represented, but:

Aggeler & Musser Seed Co. gives no warranty, express or implied, as to description, quality, productiveness, or any other matter of any seeds, bulbs, plants or trees they send out, and they will not be responsible in any way for the crop.

PARCEL POST ZONES FROM LOS ANGELES

Arizona, Utah, Nevada—mostly in the 4th zone.
Washington, Oregon, Idaho, Montana, Wyoming and Colorado—mostly in the 5th zone.
New Mexico and Texas—In 5th and 6th zones.
Oklahoma, Kansas and Nebraska—mostly in 6th zone.
Florida and South Eastern States—In 8th zone.

We send A & M California grown seeds all over the world. They produce a bit of sunshine wherever they grow.

Parcel Post Zone Rates

Wt. in lbs.	Zone 1 & 2	Zone 3rd	Zone 4th	Zone 5th	Zone 6th	Zone 7th	Zone 8th
1	\$0.07	\$0.08	\$0.08	\$0.09	\$0.10	\$0.12	\$0.13
2	.08	.10	.12	.15	.18	.22	.25
3	.09	.12	.16	.21	.26	.32	.37
4	.10	.14	.20	.27	.34	.42	.49
5	.11	.16	.24	.33	.42	.52	.61
6	.12	.18	.28	.39	.50	.62	.73
7	.13	.20	.32	.45	.58	.72	.85
8	.14	.22	.36	.51	.66	.82	.97
9	.15	.24	.40	.57	.74	.92	1.09
10	.16	.26	.44	.63	.82	1.02	1.21
11	.17	.28	.48	.69	.90	1.12	1.33
12	.18	.30	.52	.75	.98	1.22	1.45
13	.19	.32	.56	.81	1.06	1.32	1.57
14	.20	.34	.60	.87	1.14	1.42	1.69
15	.21	.36	.64	.93	1.22	1.52	1.81
16	.22	.38	.68	.99	1.30	1.62	1.93
17	.23	.40	.72	1.05	1.38	1.72	2.05
18	.24	.42	.76	1.11	1.46	1.82	2.17
19	.25	.44	.80	1.17	1.54	1.92	2.29
20	.26	.46	.84	1.23	1.62	2.02	2.41
21	.27	.48	.88	1.29	1.70	2.12	2.53
22	.28	.50	.92	1.35	1.78	2.22	2.65
23	.29	.52	.96	1.41	1.86	2.32	2.77
24	.30	.54	1.00	1.47	1.94	2.42	2.89
25	.31	.56	1.04	1.53	2.02	2.52	3.01
26	.32	.58	1.08	1.59	2.10	2.62	3.13
27	.33	.60	1.12	1.65	2.18	2.72	3.25
28	.34	.62	1.16	1.71	2.26	2.82	3.37
29	.35	.64	1.20	1.77	2.34	2.92	3.49
30	.36	.66	1.24	1.83	2.42	3.02	3.61
31	.37	.68	1.28	1.89	2.50	3.12	3.73
32	.38	.70	1.32	1.95	2.58	3.22	3.85
33	.39	.72	1.36	2.01	2.66	3.32	3.97
34	.40	.74	1.40	2.07	2.74	3.42	4.09
35	.41	.76	1.44	2.13	2.82	3.52	4.21
36	.42	.78	1.48	2.19	2.90	3.62	4.33
37	.43	.80	1.52	2.25	2.98	3.72	4.45
38	.44	.82	1.56	2.31	3.06	3.82	4.57
39	.45	.84	1.60	2.37	3.14	3.92	4.69
40	.46	.86	1.64	2.43	3.22	4.02	4.81
41	.47	.88	1.68	2.49	3.30	4.12	4.93
42	.48	.90	1.72	2.55	3.38	4.22	5.05
43	.49	.92	1.76	2.61	3.46	4.32	5.17
44	.50	.94	1.80	2.67	3.54	4.42	5.29
45	.51	.96	1.84	2.73	3.62	4.52	5.41
50	.56	1.06	2.04	3.03	4.02	5.02	6.01
55	.61	1.16	2.24	3.33	4.42	5.52	6.61
60	.66	1.26	2.44	3.63	4.82	6.02	7.21
65	.71	1.36	2.64	3.93	5.22	6.52	7.81
70	.76	1.46	2.84	4.23	5.62	7.02	8.41

LOS ANGELES, CALIF.

767 Central Ave., Los Angeles
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EXTRA ORDER SHEETS AND RETURN ENVELOPES FURNISHED ON REQUEST

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NOTICE: Please write below the names of any of your neighbors who would be interested in our catalog.

WILLIAM B. EARLY, President

FRED C. McNABB, Vice-President

AGGELER & MUSSER SEED CO.

GENERAL OFFICES, WAREHOUSES AND MAIL ORDER DEPT.

1934 East 15th Street ❖ Los Angeles, California

*** STORES ***

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Los Angeles, Calif., 767 Central Avenue
Santa Maria, Calif., 115 West Church Street
Salinas, Calif., 32 West Gabilan Street

A & M RELIABLE VEGETABLE SEEDS

Artichoke

Culture Sow any time except during hottest weather. when all seed beds require special care. Soil should be a free, moist loam and seeds should be planted an inch deep. Plant out when six inches high in rows four feet apart each way. Save offsets from best plants for new supply, as artichokes never come true from seed, some will prove inferior. When planting seedlings, reject those with spiniest leaves.

Green Globe (Pkt. 10c) (oz. 90c) (¼ lb. \$3.00) (lb. \$9.00) postpaid.

Artichoke Plants—Half Moon Bay Offshoots, 20c each, 6 for \$1.10, doz. \$2.00. Postage extra.

A & M Asparagus

Culture Drill the seed thinly in rows fifteen inches apart during March or April. Thin out to two inches apart for strong plants.

Exercise great care in preparing a field because it will last many years.

Transplant during February setting the roots one foot apart, in furrows four feet apart. Carefully spread out to avoid matting. The furrows should be ten or twelve inches deep and run North and South to get the sun on both sides of the rows. Cover the roots about three inches and as the plant grows throw the soil toward the plant. Each year when the berries are red, cut the plants close to the ground and burn, then dust the entire field with Anchor Brand sulphur, to destroy any germs of mildew, red spider or rust that may be there. Keep a mulch over the row with a harrow, but cultivate more deeply between the rows. Use stable manure liberally and hill up a little higher each year. Irrigate freely during the growing period. Three pounds of seed is sufficient to plant an acre.

Mary Washington This is the latest introduction of the rust resistant varieties and the best with the advantage over all other varieties of being earlier, which means so much to the grower. (Per pkt. 10c) (oz. 30c) (¼ lb. \$1.00) (lb. \$2.75) postpaid.

Argenteuil An excellent variety for the canner and early shipper. This variety is now more extensively grown by large planters and shippers because it is more prolific and stands shipping better. Also its purple tinge is attractive, and its excellent flavor puts it on an equal with the Palmetto for table use.

(Pkt. 10c) (oz. 20c) (¼ lb. 45c) (lb. \$1.25 postpaid).

Palmetto A popular variety for the home garden or for shipping. The sprouts are green and of delicious flavor. (Pkt. 10c) (oz. 20c) (¼ lb. 45c) (lb. \$1.25 postpaid).

Asparagus Roots Plant one year old roots and do not cut them back. When planting see that the roots are well spread out so that the soil will touch every part. If this is not done the plant cannot thrive.

We grow our asparagus roots in good, clean land and they are given the very best attention in the way of cultivation. If you are planting an acreage of Asparagus tell us how many roots you expect to use and let us quote you prices on the larger quantity. Roots are usually ready for shipment about January 15th.

Mary Washington Roots—(35c per doz.) (100, \$1.75) postpaid.

Palmetto Roots—(35c per dozen) (100, \$1.75) postpaid.

Asparagus Knife

Fish-tail Shape

Also an excellent weeder. Price 50c each, 55c postpaid.

Asparagus Moss

We always have on hand a large supply of moss for asparagus shippers. Price on application.



Italian Sprouting Broccoli

Broccoli

A & M St. Valentine The culture of Broccoli is the same as for cauliflower. For years we have been supplying commercial growers throughout Pacific Coast States, with a special strain of seed which produces the very finest Broccoli with a beautiful dark green foliage and it is equal to cauliflower for market purposes. It matures from four to six weeks later than cauliflower. Our strain has been developed to suit market conditions. Seed should be sown from July to end of September. (Pkt. 15c) (oz. \$1.50) (¼ lb. \$5.00) (1 lb. \$20.00) postpaid.

Italian Sprouting Broccoli Recently introduced from Italy, this variety is now in demand on the market. Sow in seed bed and transplant the same as for Cauliflower. For best results plant between August and February as the variety prefers cool weather. The plant forms a green cluster of buds which should be cut before opening into yellow blossoms. After the head is cut, several sprouts develop forming smaller heads of equal value to the first. The vegetable is cooked and served in the same manner as Asparagus. (Pkt. 10c) (oz. \$1.00) (¼ lb. \$3.00) (1 lb. \$9.00) postpaid.

Brussels Sprouts

A & M Medium Dwarf The culture for Brussels Sprouts is the same as for cabbage. It is a very highly esteemed vegetable and our strain of seed produces plants of dwarf, robust habit, and bearing in profusion the small compact heads. (Pkt. 10c) (oz. 30c) (¼ lb. 90c) (1 lb. \$2.75) postpaid.

A & M Beans

Write for Quantity Prices

Market gardeners who are beginners and not familiar with gardening in the Southwest would do well to consult us either in person or by mail before buying, as to variety and time of planting. Special attention should be given to the instructions concerning the time of planting, which is an important factor in Southern California, as each month requires a different variety according to the market for which they are grown.

Culture During the early spring give sandy soil preference, but heavy soil in summer. When the ground is properly moistened and pulverized, plant bush beans one or two seeds every four inches, in rows twenty to twenty-four inches apart. If the soil is heavy, one-half inch is deep enough. Plant deeper in sandy soil. During the cool spring months plant shallow; during the hot summer months plant down to moist earth. Do not plant in soil that is too wet, nor irrigate immediately after planting, else the seed will rot. During the winter months do all irrigating in the morning, because the water from the pipe is warm and will help growth. When applied in the evening the water chills the plants, cools the soil, retards the growth and causes mildew. During hot summer days irrigate in the later afternoon. Never sprinkle beans. Plant 40 lbs. Bush Beans per acre and 30 lbs. Pole Beans per acre.

To prevent mildew dust frequently with Anchor Brand sulphur while the plants are young. Mildew may be prevented but is difficult to cure. Sulphur will not cure, but will arrest and prevent mildew.

GREEN POD BUSH BEANS

A & M Stringless Green Pod One of the best varieties for the very prolific and tender, a great favorite with market gardeners, for a quick maturing crop. Plant from April 1st until Aug. 1st. (Pkt. 10c) (1/2 lb. 25c) (lb. 40c) (10 lbs. \$3.50) prepaid.

Full Measure A splendid early bean which has gained much prominence. The pods are longer than Stringless Greenpod and are entirely stringless. It is sometimes called the Dwarf Kentucky Wonder on account of the similarity of pods. Plant from April to September. (Pkt. 10c) (1/2 lb. 25c) (1 lb. 40c) (10 lbs. \$3.50) postpaid.

Early Refugee or 1000 to 1 An all round favorite for the summer months. Round pod, medium size, tender, desirable for table and cannery. It is a favorite with the market gardener because it is a good shipper, a good seller, and very prolific. Plant from April to August. (Pkt. 10c) (1/2 lb. 25c) (lb. 40c) (10 lbs. \$3.50) prepaid.



A & M Improved Butter Wax



Inoculate
Beans at plant-
ing time with
McQueen's
Inoculator for
better results

Full Measure

Canadian Wonder Flat pod of good flavor, not stringless, but otherwise tender. Very hardy. Desired above all others by gardeners growing on the foothills for winter shipping, because of its luxuriant growth and continuous bearing of long, straight pods. Plant in September, October, November, December and January, according to locality. (Pkt. 10c) (1/2 lb. 25c) (lb. 40c) (10 lbs. \$3.50) prepaid.

Dwarf Horticultural Desirable for green, shell and dried beans. Stringless and of excellent flavor. It is of Italian origin and is very popular with the Italian population. (Pkt. 10c) (1/2 lb. 25c) (lb. 40c) (10 lbs. \$3.50) prepaid.

Six Weeks A strong, rapid grower, which matures quickly. Flat pod. Only desirable for forcing. Plant in February and March, also early in September and October. (Pkt. 10c) (1/2 lb. 25c) (lb. 40c) (10 lbs. \$3.50) prepaid.

French Mohawk Long oval pod, very tender and prolific. Matures in six weeks. Desirable for a profitable short crop, as only two months is required from seed time to the end of the crop. Plant every month from March to October. (Per pkt. 10c) (1/2 lb. 25c) (lb. 40c) (10 lbs. \$3.50) prepaid.

YELLOW POD BUSH BEANS

A & M Improved Butter Wax The demand for wax beans is increasing on the market and this variety has become a favorite because of the very attractive appearance of the pods. They are long, straight, of uniform size, very prolific and quite stringless. The blossoms set well throughout the summer and are not affected by heat. This bean is resistant to rust and mildew and is highly recommended. (Pkt. 10c) (1/2 lb. 25c) (1 lb. 40c) (10 lbs. \$3.50) postpaid.

A & M Golden Wax Long, flat pod, rich golden yellow, stringless. Plant early in April and until August. (Pkt. 10c) (1/2 lb. 25c) (lb. 40c) (10 lbs. \$3.50) postpaid.

Ventura Wonder Wax or Davis Kidney Wax

This is the best Bean for the interior, Imperial Valley, Arizona and New Mexico, because the blossoms will not fall even at a high temperature. It is an excellent dry bean. Good bearer. Pods are long, rustless and hardy and very tender when young. (Pkt. 10c) (1/2 lb. 25c) (lb. 40c) (10 lbs. \$3.50) prepaid.

Prolific Black Wax Pod round, straight, five to six inches long. Decidedly the most desirable for mid-summer gardening. Plant from April to August. (Pkt. 10c) (1/2 lb. 25c) (lb. 40c) (10 lbs. \$3.50) prepaid.

Pole Beans

Kentucky Wonder The Kentucky Wonder has for many years been the most popular bean with market gardeners as well as for the home gardeners. Its long round stringless pods are very prolific and tender, but it is more susceptible to mildew than other varieties. For April and May planting it cannot be excelled. It has brown seed of little value as dry beans. (Pkt. 10c) (1/2 lb. 25c) (lb. 40c) (10 lbs. \$3.50) prepaid.

White Seeded Kentucky Wonder

In the South where earliness and lateness mean so much to the market gardener, the White Seeded Kentucky Wonder is far ahead of other varieties. It is enormously prolific of firm pods that withstand shipping to almost any part of the United States. It matures ten days earlier than the Brown Seeded Kentucky Wonder. (Pkt. 10c) (1/2 lb. 25c) (lb. 40c) (10 lbs. \$3.50) prepaid.

A & M Rust Resistant Kentucky Wonder

An improved and selected strain. Realizing the importance of having a strain of Kentucky Wonder Beans that is more resistant to rust we have been selecting and improving along this line until we now have what we consider one that is more immune to attack by rust than any other, and it is as hardy as Canadian Wonder.

Along the coast and where there is considerable moisture in the air the A & M Rust Resistant Kentucky Wonder will thrive and yield well even under adverse weather conditions.

We have bred up both a brown and white seed stock of this. Brown Seed (Pkt. 10c) (1/2 lb. 25c) (lb. 40c) (10 lbs. \$3.50) prepaid. White Seed (Pkt. 10c) (1/2 lb. 25c) (1 lb. 40c) (10 lbs. \$3.50) prepaid.

Kentucky Wonder Wax The Pride of the Garden. It commences to bear when scarcely higher than the average bush variety, and keeps on producing until killed by a frost. It is a rampant grower, one plant filling a pole with a mass of vines densely loaded with luscious golden beans. They are firm, entirely stringless, and when cooked, deliciously rich and buttery. The seed is brown, closely resembling that of Kentucky Wonder. Plant from April to August. (Pkt. 10c) (1/2 lb. 25c) (lb. 40c) (10 lbs. \$3.50) prepaid.

Horticultural Pole

Also referred to as Romaine, Cranberry, Italian and Cornfield. Its large, succulent, tender pods make it a favorite bean for the table. It is one of the most desirable green shelled beans for succotash and excellent as a dry bean. It is also first rate when parboiled and pickled in a mild solution of vinegar and water. (Pkt. 10c) (1/2 lb. 25c) (lb. 40c) (10 lbs. \$3.50) prepaid.

Celestial or Yard Long

A good table bean, as well as a curiosity. It is very prolific and a rank grower. Should have ample arbor to climb upon.

It should be grown more extensively in the home garden. It is of Chinese origin and one of the best vegetables emanating from that source. It is also absolutely rust - proof. (Pkt. 10c) (1 oz. 20c) (1 lb. \$1.50) postpaid.

The Scarlet Runner

An old-time favorite that heretofore has been planted chiefly for ornamental purposes. But few people know that the Scarlet Runner may be planted May 1 and in six weeks attain a height of 8 feet, and rapidly cover an arbor with vines 20 feet long. (Pkt. 10c) (1/2 lb. 25c) (lb. 40c) (10 lbs. \$3.50) prepaid.

Bush Lima Beans

Lima beans planted in cold soil will rot. The last of April and the month of May is as early as they should be planted.



Fordhook Bush Lima

Fordhook Bush Lima

In order to get the best results plant one foot apart in rows 3 1/2 feet apart. It is an improvement over the well known bush Lima because it is more prolific. It is a strong grower, more resistant to blight, and is more profitable to grow for the market because the pods remain green. This is of great advantage to the peddler, retailer and shipper. It has received universal praise. We recommend it to our customers for both home and market gardens—for the home garden because of its excellent flavor and productiveness; for the market gardener because it is demanded by the shipper and consumer. (Pkt. 10c) (1/2 lb. 25c) (lb. 45c) (10 lbs. \$4.00) prepaid.

Burpee's Improved Bush

This bean differs from the old bush variety in being ten days earlier. Will yield one-fourth more tonnage per acre. The pods contain four to five beans that are larger and thicker than the old bush lima. Where the Improved Bush Lima is known the old variety is no longer in demand. (Pkt. 10c) (1/2 lb. 25c) (lb. 45c) (10 lbs. \$4.00) prepaid.

Henderson's Bush

Also called Baby Lima. Small white Lima Bean, of excellent flavor and enormously prolific. It is grown so extensively here that it ranks commercially with common limas and other commercial varieties. It is used largely for canning. (Pkt. 10c) (1/2 lb. 20c) (lb. 35c) (10 lbs. \$3.00) prepaid.

Monstrous Lima

Plant 6 feet by 6 feet, leaving one stalk in each hill. If convenient, plant in a sheltered place about April 1. You will then be gathering beans during September and possibly until January. After a while new growth will appear, then prune as you would a grape vine, protect with straw or a similar material, and by May 1st you have a new crop as profitable as peppers or string beans or any other early vegetable. During July the vines will show age and become mildewed; prune as before and in October you will begin gathering your third crop. Continue pruning twice a year; irrigate and fertilize. (Pkt. 10c) (1/2 lb. 35c) (lb. 60c prepaid) (10 lbs. \$5.50 prepaid).

Pole Lima

King of the Garden Very prolific; large and desirable both for the home garden and for the market gardener. Not quite as early as the bush varieties, but bear over a longer period. Plant from April 1 to September 1. (Per pkt. 10c) (1/2 lb. 25c) (lb. 45c) (10 lbs. \$4.00) prepaid.

Commercial Beans

Each variety (per lb. 25c) (10 lbs. \$2.00)
Write for quantity price.

Pink An old-time favorite. Plant 30 to 45 lbs. to the acre.

Lady Washington and Navy

Both are small white beans, but the Navy is slightly smaller. Plant 25 to 30 lbs. to acre.

Red Kidney Is grown largely for canning. Plant 40 to 50 lbs. to acre.

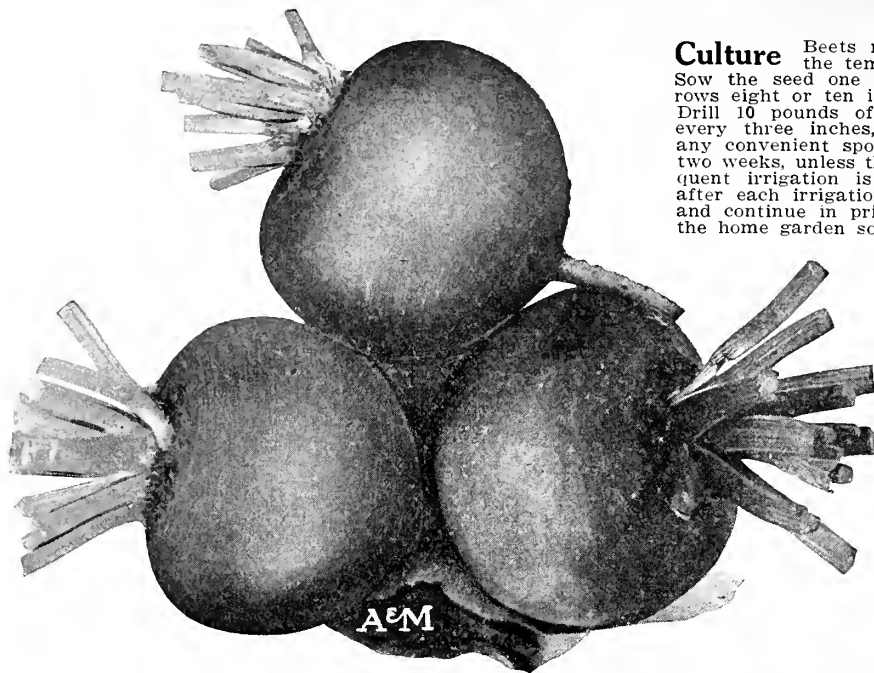
Mexican Red There is a ready market for it at our wholesale grocers. Plant 30 to 40 lbs. to acre.

Garvanza—(Chick Pea) This is very popular farther south. Plant 40 to 50 lbs. to acre.



Kentucky Wonder Beans, growing on laths

A & M Table Beets



Early Wonder

Early Flat Egyptian The Egyptian is a small, dark red, flat, smooth variety. It is sweetest and best for the table and is the market gardener's winter favorite on account of its beautiful appearance, earliness, and excellent flavor. (Pkt. 10c) (oz. 20c) (¼ lb. 35c) (lb. \$1.00) postpaid.

Culture Beets may be planted all the year round where the temperature does not linger below 30 degrees. Sow the seed one inch deep in well prepared, moist soil in rows eight or ten inches apart, or on ridges same as lettuce. Drill 10 pounds of seed per acre. Thin out to one plant every three inches, and transplant the discarded plants in any convenient spot about the garden. Irrigate about every two weeks, unless the nature of the soil is such that more frequent irrigation is found to be necessary. Mulch the soil after each irrigation. Beets are ready for use in ten weeks and continue in prime condition for another ten weeks. For the home garden sow one ounce of seed for 100 feet of row.

Early Wonder In size and shape this beet is very similar to Early Crosby. Because of its very bright color it is becoming very popular on the local market and we think it is destined to become one of the best market varieties. It is extremely early, of good uniform size, a bright red in color and with a very small top, which makes it most suitable for bunching. (Pkt. 10c) (oz. 20c) (¼ lb. 35c) (1 lb. \$1.00) postpaid.

Early Blood Turnip Of large growth. Flesh very tender and retains its blood-red color when cooked. On account of its tall leaves it is a favorite summer time beet with market gardeners. (Pkt. 10c) (oz. 20c) (¼ lb. 35c) (lb. \$1.00) postpaid.

Early Crosby One of the favorites among California gardeners who are producing beets for bunching. They are of uniform shape and size, with good color and medium top. (Pkt. 10c) (oz. 20c) (¼ lb. 40c) (1 lb. \$1.25) postpaid.

Detroit Dark Red This is an ideal beet for all purposes. It cannot be excelled for the table; free from all fibre and very sweet. It is one of the best for pickling or canning. Even the tops are good when pickled. (Pkt. 10c) (oz. 20c) (¼ lb. 35c) (lb. \$1.00) postpaid.

A & M Stock Beets

Culture May be sown all the year round in drills sixteen inches apart. Thin out to stand one foot apart in rows. Keep well cultivated; 8 pounds of mangel, or 10 pounds of sugar beet seed will plant an acre and yield several tons of beets. For the breeder of hogs, small stock and poultry, we recommend the planting of beets. The Stock Beet is one of the finest fat and milk-producing crops we have today, and when fed in conjunction with grain they are worth nearly as much, pound for pound, as the grain itself.

Long Red Mangel The largest Stock Beet. Yields 40 to 50 tons to the acre. Will grow in land containing more alkali than any other beet. All stock and excellent flavor. (Pkt. 10c) (oz. 20c) (¼ lb. 35c) (lb. \$1.00) postpaid.

Golden Tankard Mangel Contains more sugar and less water than any other Mangel. Rich in milk-producing qualities, hence a favorite with dairymen. Horses will eat it. (Pkt. 10c) (lb. 60c) (10 lbs. \$5.50) postpaid.

Klein Wanzleben (Sugar Beet.) This variety is without question the best in cultivation. Not the largest in size, but the richest in saccharine. It will fatten hogs as quickly as grain. (Pkt. 10c) (lb. 60c) (10 lbs. \$5.50) postpaid.

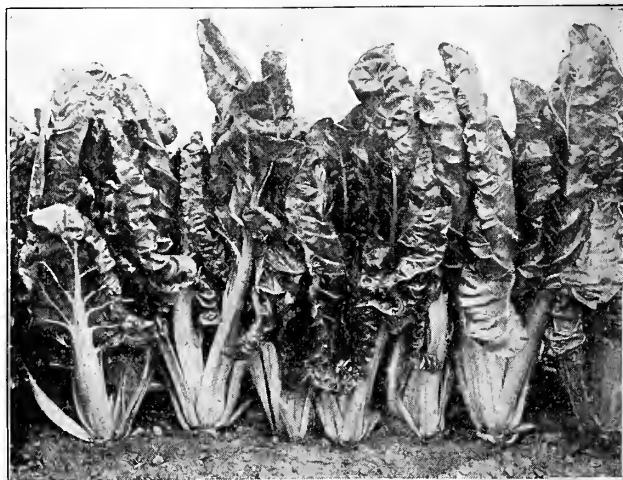
A & M SWISS CHARD

Culture Same as for beets; transplant 8 inches apart in rows 18 inches apart. Grown for its leaves only; one of the best early greens. Cook the leaves as you do spinach and the stems in cream as asparagus. Leaves grow to enormous size, 20 inches to 2 feet in length. The plant is almost perpetual if kept trimmed, but it is better to have a new crop every year. The tender leaves make it a desirable plant for poultry greens; much more desirable than alfalfa, because it can be grown with less care and in any convenient place about the premises. Try it for your hens.

Lucullus Used extensively for poultry and is one of the most popular varieties for this purpose because of the tendency to grow to a good height and to produce longer leaves and more foliage. (Pkt. 10c) (oz. 20c) (¼ lb. 35c) (1 lb. \$1.00) postpaid.

White Swiss Chard Best suitable for table use, but is also used extensively for poultry feed. It has a large white rib, a rather smooth leaf, making it easily cleaned for table use. The large midrib is sometimes cooked as you would prepare asparagus. (Pkt. 10c) (oz. 20c) (¼ lb. 35c) (1 lb. \$1.00) postpaid.

Half Sugar Rose A distinct type of Sugar Beet, producing not only a good crop, but roots of giant size and richest food quality. It has yielded 55 tons per acre, several tons per acre more than the heaviest producers of other sorts on the list. They have a small top, and are easily trimmed. The roots are heavy, but are so easily harvested that they may be uprooted by a push of the foot. The flesh is white, solid, tender and very sweet and imparts a rich, pleasant flavor to dairy products when fed to milk cows. Also particularly good for fattening hogs. (Pkt. 10c) (lb. 60c) (10 lbs. \$5.50) postpaid.



White Swiss Chard

A & M Cabbage

Culture The secret of growing hardy plants is to thoroughly prepare the soil in the plant bed. Plow the soil to a depth of eight or ten inches, pulverize well. Sow in drills not too freely, about one-half inch deep, press the soil firmly over the seed; this is important. In about six weeks transplant in rows three feet apart, one foot in the row for Winnigstadt, eighteen inches for large-heading varieties. Keep the crop well watered and cultivated for when the growth is checked the seed head matures and bursts forth as soon as moisture is again applied. This accounts for much cabbage going to seed. Early varieties mature about three and one-half months after transplanting, late varieties in about five months.

Cabbage may be grown all the year in Southern California and throughout the Southwest.

It should be borne in mind that the big planting of cabbage is intended to meet the Eastern demand in midwinter and early spring, and that our time of planting is out of the natural season, and therefore often subjected to unseasonable weather, which causes it to be stunted and often shoot to seed.

Improper culture, too, will stunt the normal growth of cabbage and cause the heads to prematurely go to seed.

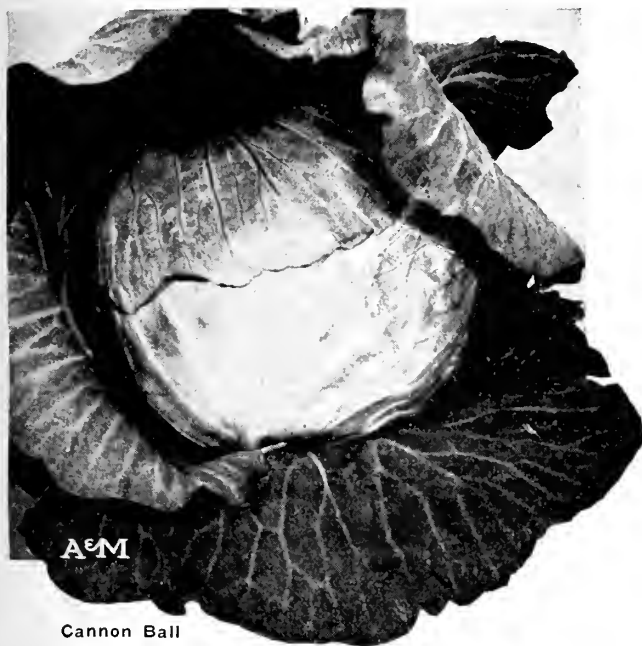
Cabbage requires heavy soil but good drainage and frequent but shallow cultivation. However good crops will be obtained on lighter soil if well fertilized.

Should there be a cold spell when the thermometer lingers below 25 degrees, just at the time the cabbage begins to head, some of the crop may run to seed.

Five ounces of seed will produce plants for one acre.

For control of aphid in field culture dust with Nico Dust, using No. 6 in hot weather, No. 8 in cooler weather and No. 10 in cold weather. For home gardens Evergreen, Destruxol and Black Leaf 40 are very effective.

A & M Golden Acre Cabbage This is one of the earliest varieties of cabbage we have ever had in our trials. It resembles somewhat in shape the Copenhagen Market, but is a trifle smaller in size and is 12 to 14 days earlier. In habit of growth it is quite dwarf, very compact and produces a head of desirable size for family use or for packing. The heads average in weight 2½ to 3 pounds. Because of its compactness and the few leaves it may be planted 12 to 14 inches apart in the row and at this rate about 15,000 plants are required for one acre. It is very solid, of uniform shape and size and is what we consider an extra fine all around variety. (Pkt. 10c) (oz. 35c) (¼ lb. \$1.65) (lb. \$5.00) postpaid.



Cannon Ball

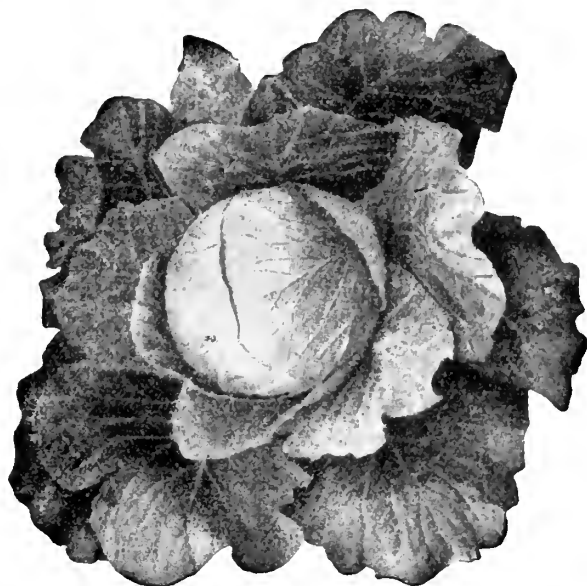
Copenhagen Market For tenderness and delicious flavor this cabbage is unequalled. It forms a large round solid head and is very early and crisp. Extensive acreages are grown every year for the market. (Pkt. 10c) (oz. 45c) (¼ lb. \$1.50) (lb. \$4.50) postpaid.

Cannon Ball or Short Stem Danish Ballhead

This has become one of the standard varieties for shipping. It is now grown as extensively as the Winnigstadt but it is planted mostly during August and September for early shipping while Winnigstadt is preferred for mid-winter crop. (Pkt. 10c) (oz. 45c) (¼ lb. \$1.50) (lb. \$4.50) postpaid.

A & M Early Flat Dutch This is a splendid strain of Flat Dutch Cabbage. It is a favorite with many market gardeners and home gardeners for the reason that every plant produces a head. Heads are large, well flattened on top, and it is a good producer under most any climatic conditions where other cabbage can be produced. (Pkt. 10c) (oz. 35c) (¼ lb. \$1.20) (1 lb. \$3.50) postpaid.

Improved Scott's Cross This type of Cabbage was very popular a few years ago and we now offer a greatly improved strain. It is a pointed Cabbage similar to Winnigstadt but produces a greater tonnage per acre and matures a little later. A very excellent variety strongly recommended for all purposes. (Pkt. 10c) (oz. 50c) (¼ lb. \$1.65) (lb. \$5.00) postpaid.



A & M Golden Acre

Late Flat Dutch Year by year this variety becomes more and more popular. It is very early, tender, crisp, and just the right size for the dealer. Truckers like it because every stalk produces a head. (Pkt. 10c) (oz. 35c) (¼ lb. \$1.20) (lb. \$3.50) postpaid.

Early Jersey Wakefield Very early, maturing in 90 days. Small head inclined to point like the Winnigstadt. Recommended for home garden where earliness is desired. (Pkt. 10c) (oz. 35c) (¼ lb. \$1.20) (lb. \$3.50) postpaid.

Drumhead Savoy The best of all Savoys. Short stump, large size, solid head. (Pkt. 10c) (oz. 40c) (¼ lb. \$1.35) (lb. \$4.00) postpaid.

Red Dutch Heads of deep color and remarkably solid. Excellent for slaw. (Pkt. 10c) (oz. 35c) (¼ lb. \$1.20) (lb. \$3.50) postpaid.



A & M Winnigstadt

No other vegetable listed in our catalog has retained its popularity so continuously and for such a long time as our strain of Winnigstadt Cabbage, introduced by us in 1896. As a winter crop it is in great demand. It is popular because it is early, solid, good flavor, sure header, and good shipper. The small heads are particularly desirable for home use, making it a most satisfactory home garden variety. (Pkt. 10c) (oz. 35c) (¼ lb. \$1.20) (lb. \$3.50) postpaid.

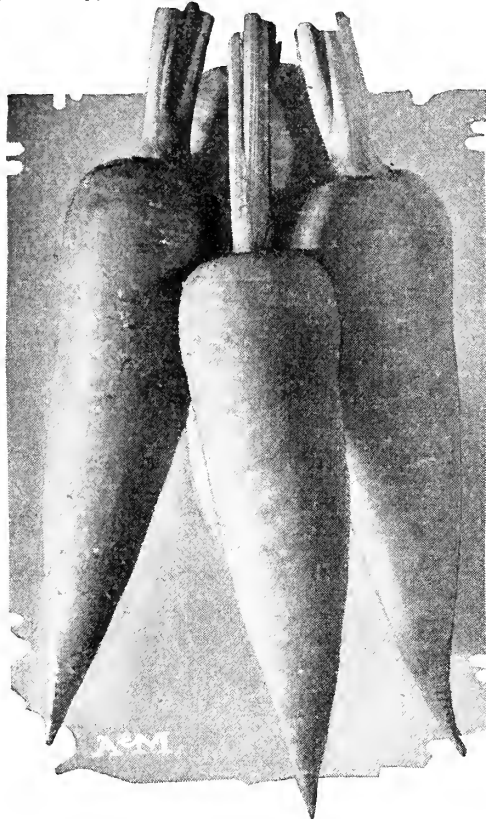
CHINESE CABBAGE—See Page 6

A & M Table Carrots

Culture Sow one ounce of seed to 100 feet of row, three pounds per acre. Carrots are very profitable because of the large quantity that a small patch can produce, and there is no waste, as any surplus may be fed to rabbits or other animals.

Carrots may be planted all the year round. Sow the seed from one-half to one inch deep in rich, moist, loamy soil, well prepared. Sow in rows eight inches apart, and as thin as the drill can be set to sow, or, if sown by hand, aim to have two seed to the inch, or sow in ridges same as lettuce. The carrot has few insect enemies. Nematode is the worst. Irrigate same as for beets. Carrots are ready for use in eight weeks and remain palatable for six months or longer.

Market—The local demand for Carrots is all the year round, but the chief demand is from the shipper, who wants them from December 1st until May. For this trade the seed should be planted in August and September. The shipper wants the Chantenay, Oxheart and Danver Half Long.



Danver's Half Long

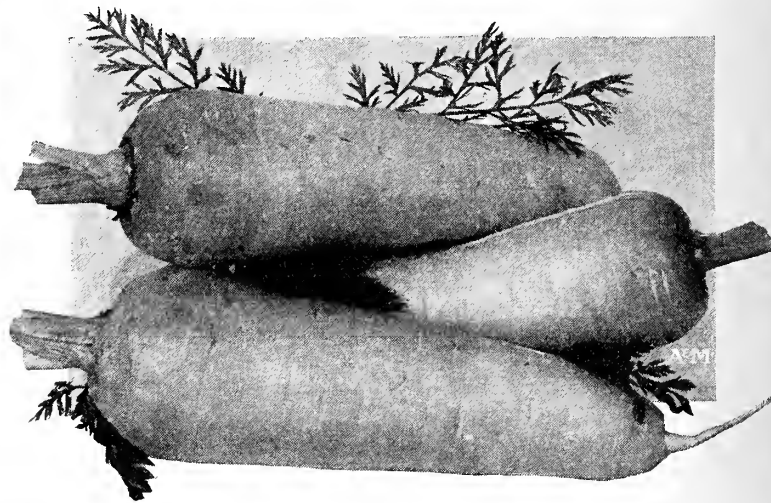
Chantenay Flesh is a deep golden orange color, always smooth and fine in texture, very tender. Excellent bunching variety and is grown extensively by market gardeners. (Pkt. 10c) (oz. 20c) (¼ lb. 35c) (lb. \$1.00) postpaid.

Danver's Half Long The roots are smooth and of a rich, dark orange color. One of the best sorts for a main crop because it remains edible in the fields longer than other varieties. (Pkt. 10c) (oz. 20c) (¼ lb. 35c) (lb. \$1.00) postpaid.

Improved Long Orange A deep orange colored variety adapted for farm or garden culture. (Pkt. 10c) (oz. 20c) (¼ lb. 35c) (lb. \$1.00) postpaid.

Oxheart Beautiful shape and color. The roots generally attain four or five inches in length, and about three inches in diameter. Quality first rate, very tender, and a variety that is used in quantity. (Pkt. 10c) (oz. 20c) (¼ lb. 35c) (lb. \$1.00) postpaid.

Early French Forcing A small sort but desirable on account of its extra early habit. (Pkt. 10c) (oz. 20c) (¼ lb. 50c) (lb. \$1.50) postpaid.



Chantenay

I certainly am pleased with your seed and your Ventura Wonder Wax Beans are the most prolific bearers I have ever raised—had early beans to sell. Your Copenhagen Market Cabbage is fine. Will want more seed next year.—MRS. E. J. EVANS, Michigan.

A & M STOCK CARROTS

Culture Drill in rows 12 inches apart, and thin to three inches apart in the row. It requires three pounds of seed to plant an acre. Carrots are healthful food for stock of all kinds and should be more generally grown.

Half Long White Belgian Is raised exclusively for stock. Grows to a very large size; is easily gathered. Makes splendid food for cattle, horses and hogs; known to yield forty tons per acre. Will keep four or five months after pulling. (Pkt. 10c) (oz. 20c) (¼ lb. 35c) (lb. 90c) postpaid.

Large Yellow Belgian Is similar to White Belgian, but with a light orange color; said to be richer, but does not keep so well. (Pkt. 10c) (oz. 20c) (¼ lb. 35c) (lb. 90c) postpaid.

Chinese Cabbage

Our strain is the genuine Wong Bok imported from China and is considered the perfect Chinese Cabbage. The large solid heads are crisp and tender and are ideal for salads. It is also useful for cooking and is grown extensively for poultry. Sow from Sept. 1st until Feb. 1st in rows 24 inches apart and thin plants to 10 inches apart in the rows. (Pkt. 10c) (oz. 50c) (¼ lb. \$1.65) (lb. \$5.00) postpaid.

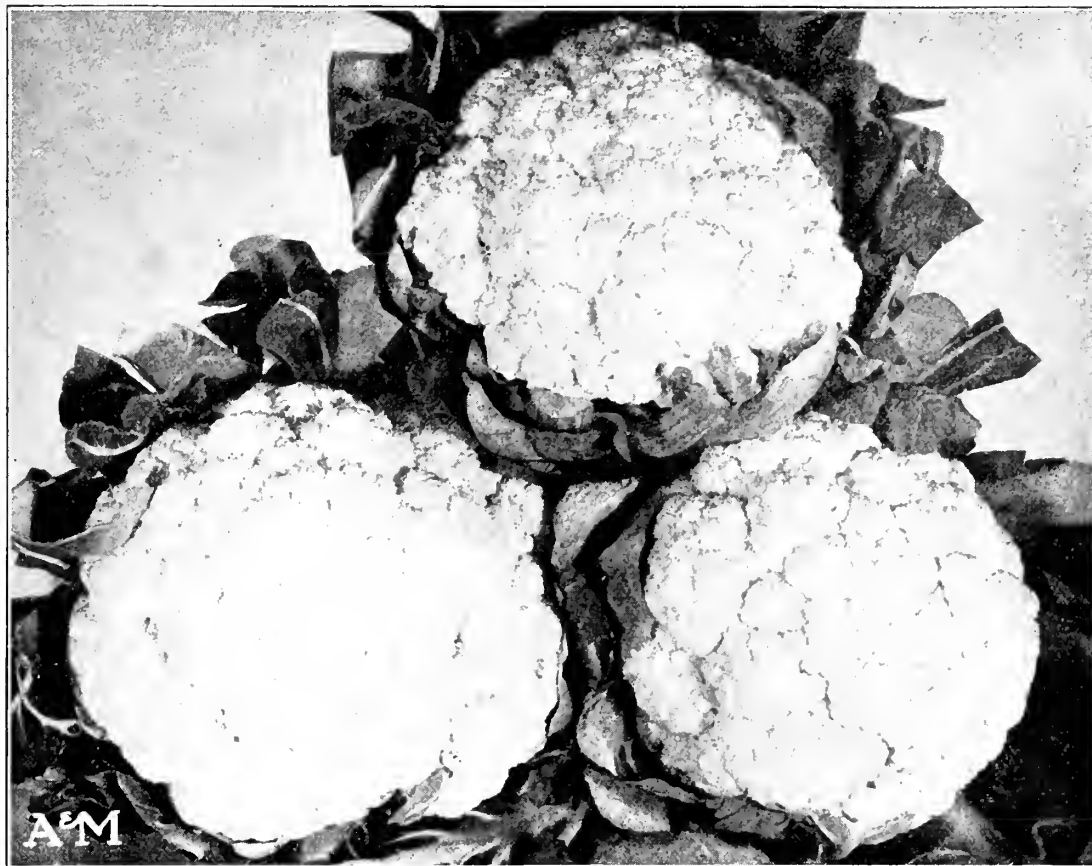


A & M Collards

The Collard is an old-time favorite, adapted to all parts of the South, and as a producer of "greens" during winter and spring it has no equal. It will pay you to have a collard patch just to feed the chickens.

Southern Georgia This variety is the old-time favorite. Stands all sorts of adverse conditions without injury. Is very hardy. In many places where the soil is too poor to grow cabbage, the collard grows easily, and makes a good substitute for cabbage. (Pkt. 10c) (oz. 20c) (¼ lb. 60c) (lb. \$2.00) postpaid.

A & M Cauliflower



A & M Pearl

Culture (For Shippers)—Choose soil from a rich loam to a heavy adobe. The field should be level to afford a uniform moisture. Avoid planting Cauliflower or Cabbage on a hillside.

Early varieties should be planted in the seed bed from May 1st to July 1st. Late varieties from June 1st to August 1st. Early planting of seed is advised in order that the plant may have fully developed before the proper season for maturing.

Plants should be ready to transplant from six to eight weeks after seed is planted. Early varieties should be ready for market in November; late varieties in December and January, and later according to the time of planting the seed.

Do not attempt to grow Cauliflower or Cabbage unless you have water in abundance.

Five ounces of seed will produce plants for one acre.



How Cauliflower Is Planted

The field is irrigated several days before and the furrow immediately after planting. Note the size of the plants, also see the water coming in the furrow.

Snowball This variety is in a class by itself for earliness. The demand for seed begins in April for May planting, which is ready for the local market beginning October 1st.

There is good profit in the early variety, but care should be exercised to avoid blighting by excessively hot weather. At such times apply water abundantly, but cultivate judiciously to prevent any baking of the soil. (Pkt. 25c) (1/4 oz. 90c) (oz. \$2.50) (1/4 lb. \$7.50) (lb. \$30.00) postpaid.

Extra Early Pearl From seed planted in May the crop may be harvested in November. This is the usual procedure in planting this variety in Southern California. It is a most dependable Cauliflower and is sure to head if properly cared for.

We have growers who plant this variety year after year. (Pkt. 10c) (1/4 oz. 65c) (oz. \$2.00) (1/4 lb. \$6.50) (lb. \$20.00).

Medium Early Pearl Similar in all respects to the Extra Early and Late Pearl varieties except that it should be planted not earlier than June 1st nor later than August 1st. (Pkt. 10c) (1/4 oz. 65c) (1 oz. \$2.00) (1/4 lb. \$6.65) (lb. \$20.00).

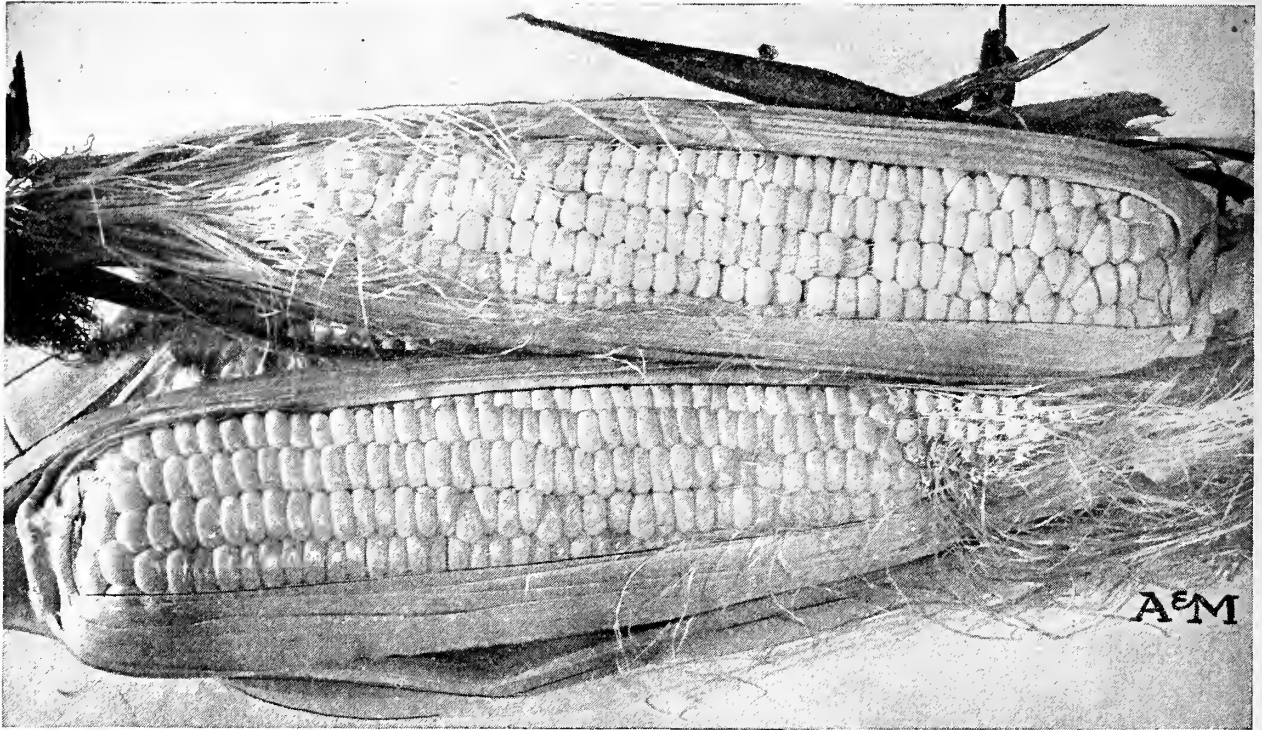
A & M Late Pearl Late Pearl Cauliflower attains a height of three to four feet. Plant seed during July to harvest during January and February. This is the variety that has made California Cauliflower famous throughout the United States and is bringing annually more than \$1,000,000 to growers. (Pkt. 10c) (1/4 oz. 65c) (oz. \$2.00) (1/4 lb. \$6.65) (lb. \$20.00) postpaid.

Notes Concerning Pearl Cauliflower

Cauliflower is a great favorite from California to New York, because of its excellent shipping qualities. It originated here and has made Southern California famous for her excellent cauliflower. The California Pearl is thoroughly adapted to our mild winter climate and is particularly suited for shipping because of the flower being completely enveloped within spiral curled leaves, which protect the flower from injurious exposure to rain, sunshine or frost, but particularly from injury in packing and in transit. To be packed for shipping it is only necessary to cut the stem at the base of the head, and the leaves about two inches above the head. This leaves foliage enough to cover the crown without wrapping in paper.

The small grower may plant at any time from May until February, but for profit the large grower should carefully peruse instructions given with each variety.

A & M Sweet Corn



A & M Oregon Evergreen

Culture Plant from Feb. 15th to September 1st in hills 18 inches apart, in rows three feet apart. Allow two stalks to the hill, break off all side shoots; cultivate after each irrigation until the corn shades the ground; irrigate every two weeks until in the milk, then once or twice a week, and this will produce a solid, tight husk, which will prevent the worms from doing much damage.

Instead of planting long single rows of corn it is preferable to sow several short rows along side each other so that pollen scattering from the top tassels is more likely to reach the silk of the ears below. A rotation of corn may be obtained by planting at the same time some A & M Early Golden, Golden Bantam and Oregon Evergreen and they will mature at intervals in the order named. Plant 10 lbs. per acre.

A & M Oregon Evergreen Oregon Evergreen corn now has the endorsement of every gardener that grows for the Los Angeles market. We are safe to say that any gardener growing this will show to his customers its superiority over all other sweet corn. It is many years since we first offered this new and distinct variety. The demand has grown each year until it is now practically the only variety offered on the Los Angeles market. The advantages of this corn over all others are its earliness, its large size, rarely less than eight inches long. The grains are full to the tip and delicious.

The husk is very thick and folds so tightly over the grains that the worm does very little damage, compared with other varieties. It is desired by the peddler and groceryman because of its thick husk, and it can be held over two days before it appears old or wilted. It is very productive, often bearing five marketable ears. (Pkt. 10c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) postpaid.

A & M Early Golden This is a light golden colored corn maturing earlier than Golden Bantam. The ears are also larger than Golden Bantam and are of a very fine flavor, being sweet and tender. The stalks are dwarf in nature, growing to a height of about 3 feet, each stalk producing two or three ears. (Packet 10c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) postpaid.

Golden Bantam A home garden variety that is highly desirable because of its flavor and sugar content. It is very early, dwarf in habit and a good yielder. By removing the suckers as they appear several ears may be produced on the main stalk. (Pkt. 10c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) postpaid.

Country Gentleman A delicious sweet corn. The ears showy than the coarser varieties, but for private family use, where quality is preferred to size, it is excelled only by the Golden Bantam. The cob is very small, giving great depth to the kernels. The great merit of "Country Gentleman" is its fine quality. It matures in ten weeks. (Pkt. 10c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) prepaid.

A & M Early Adams This is a cross between the Oregon Evergreen and the Eastern Extra Early Adams. The superiority of this strain over the former eastern-grown Adams is shown in its earliness, large size and sweetness. It is nearly as good as the Oregon Evergreen, and it is earlier and hardier. It is one of the many good things that originated here. Although it may be frosted when six inches high it will come again. (Pkt. 10c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) prepaid.

A & M Large Adams This is the best market variety to plant in August for late crop. It will mature in fifty-five days. (Pkt. 10c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) prepaid.

Stowell's Evergreen If planted at the same time with earlier varieties and at intervals of two weeks until July 1st, it will keep the table supplied until November. It is hardy and productive, very tender and sugary, remaining a long time in a fresh condition. (Pkt. 10c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) prepaid.

Black Mexican One of the best sweet corns for this section. Deliciously sweet and tender very productive. (Pkt. 10c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) prepaid.

SEMESAN, JR.

For better results dust seed corn before sowing with Semesan, Jr. It is effective in controlling diseases, accelerates germination, develops sturdier plants, promotes earlier maturity, improves quality and increases yields. (4 oz. 50c) (1 lb. \$1.75) (5 lbs. \$8.00) (25 lbs. \$31.25) f. o. b. Cannot be mailed.

Pop Corn

Rice Sharp pointed grain is preferred by vendors, but is not profitable to grow here at the usual price because of the devastations of the worm. (Per pkt. 10c) (lb. 30c) (10 lbs. \$2.50) prepaid.

Yellow Large smooth grains of Golden Yellow Color. It pops large, has excellent flavor and is the most profitable to grow. (Pkt. 10c) (lb. 30c) (10 lbs. \$2.50) prepaid.

A & M Cucumbers

CULTURE FOR HOT-BED—Make the frame eight feet wide and as long as is desired, using 12 in. boards. Select a place with good loamy soil on a sunny slope. Mix the soil almost half and half with horse manure. About February 1st sow liberally with seed, in hills three feet apart each way. Stretch wire over the frame across and lengthwise. Sow muslin in widths and lengths to cover frame. Arrange to roll the muslin on a stick as a curtain. Cover each evening, and open each day.

Early Fortune A very fine early variety producing rich dark green fruits about 8 to 9 inches in length. The flesh is thick and crisp with a delicious flavor. It is a long distance shipping cucumber and is popular alike with the market gardener and home planter. (Pkt. 10c) (oz. 20c) (¼ lb. 50c) (lb. \$1.50) postpaid.

A & M Davis Perfect This is the ideal cucumber. Long, slender, dark green, tender and crisp. It is the best all-around cucumber yet offered for the family garden, and the hot house. Do not hesitate to plant this variety. (Pkt. 10c) (oz. 20c) (¼ lb. 50c) (lb. \$1.50) postpaid.

Klondike This cucumber has steadily grown into favor since we first offered it. It is the one variety that made carload shipments possible because it is firm, dark green color, and stays green until consumed. It is a desirable size, just 7 to 8 inches long, symmetrical in shape, and especially crisp and palatable. It is an excellent variety for pickling when young, as well as desirable for the market. (Pkt. 10c) (oz. 20c) (¼ lb. 50c) (lb. \$1.50) postpaid.

White Spine A popular, early variety for slicing. Very prolific, crisp and excellent for pickling when young. (Pkt. 10c) (oz. 20c) (¼ lb. 60c) (lb. \$1.75) postpaid.

Chicago Pickling This is the variety that is grown largely for pickling factories, and our seed has given the growers satisfactory results for years.

It is chosen because of its delicious quality and its shape, being one inch thick and three inches long when at pickling size. It is enormously prolific, bearing in clusters. We can recommend it for the home garden. (Pkt. 10c) (oz. 20c) (¼ lb. 50c) (lb. \$1.50) postpaid.

Everbearing Cucumber This variety is entirely distinct from all others on account of its close, bushy growth and everbearing character. The first cucumbers are ready very early and the vines continue to flower and produce fruit continually until late in the season, whether the ripe cucumbers are picked off or not, differing in this respect from all other varieties of cucumbers in cultivation. One of the old reliable varieties growing 5 to 6 inches long. The skin is dark green, the meat firm and crisp. Is used extensively for forcing, and early field growing. Our strain of seed produces a large percentage of uniform size and shape for packing and shipping.

We recommend this to be planted in home gardens at all times, but especially in September. (Pkt. 10c) (oz. 20c) (¼ lb. 65c) (lb. \$2.00) postpaid.

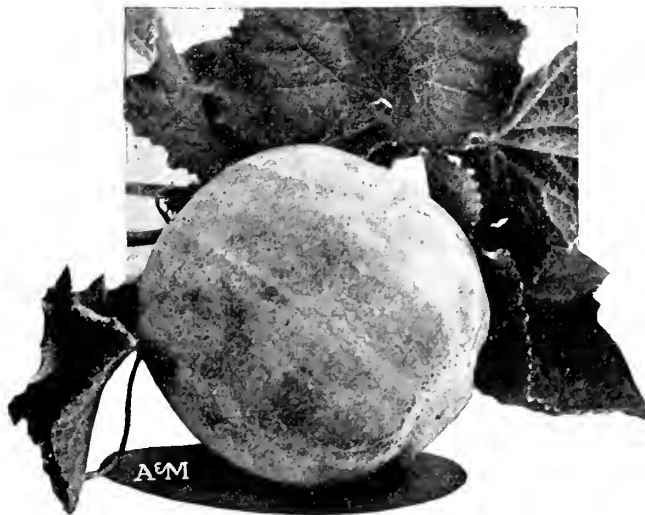
Gherkin This cucumber is the most delicious of all the cucumber family when properly pickled. It should be more extensively grown. Planted where it may climb on a trellis, one vine will cover a section of fence eight feet high and twelve feet wide, producing possibly a thousand or more of the delicious and oddly shaped gherkins. It should be planted to shade a window or back porch. (Pkt. 10c) (oz. 25c) (¼ lb. 90c) postpaid.

A & M Special Long Green

This is a great improvement over the old strain of Long Green. The fruits are unusually handsome, being of good form and of a deep green color which is retained a considerable time after picking. 9-10 inches in length.

(Pkt. 10c) (oz. 25c)
(¼ lb. 85c) (lb. \$2.50)
postpaid.

FIELD CULTURE—Plant from March to October in hills 4 to 6 feet each way, 8 to 10 seeds to a hill. Earlier sowings can be made by protecting with Hotkaps. Cover an inch deep. When danger of insects is past, thin out the plants, leaving 3 or 4 of the strongest in each hill. It is ready for the table in ten weeks from planting seed. One ounce of seed will plant 50 hills; two pounds to the acre.



Lemon Cucumber

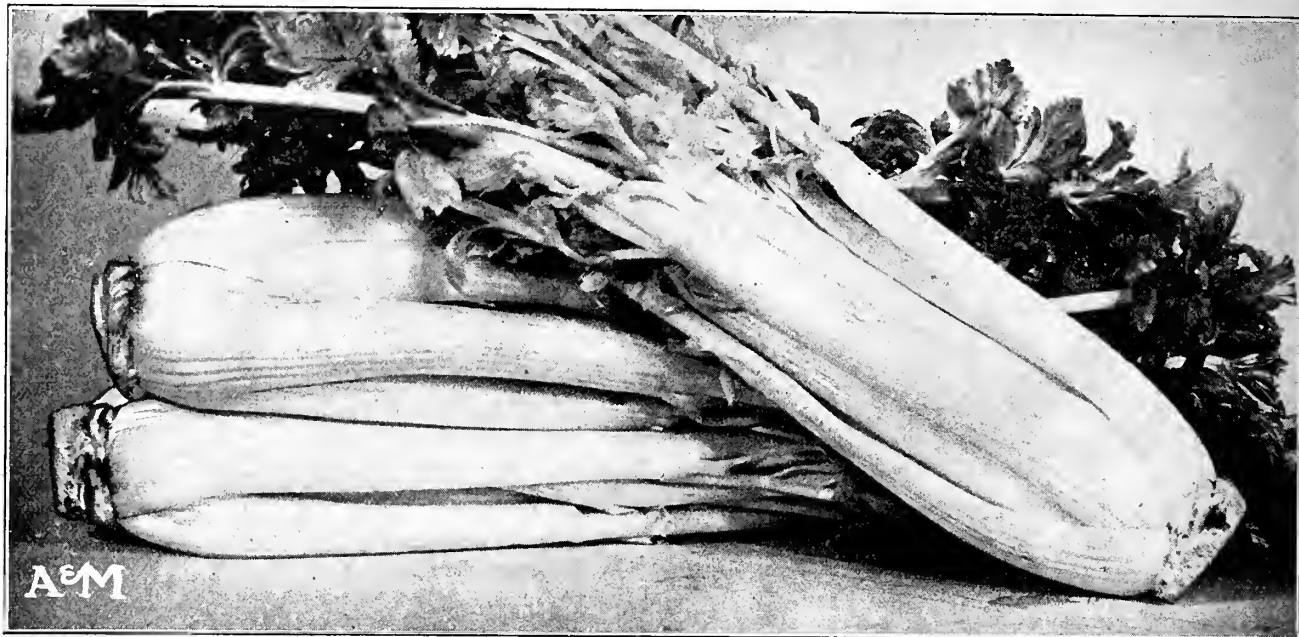
Lemon Cucumber Every one who has tried it is unanimous in its praise, and would not think of omitting it from the spring garden. It is the color of a lemon when ready to use, and similar in shape, being less pointed at the ends.

There is nothing but approval for the Lemon Cucumber. It may now be found at almost any vegetable stand, and no home garden should be without it. (Pkt. 10c) (oz. 20c) (¼ lb. 65c) (lb. \$2.00) postpaid.

Salad Cucumber One of our own introductions and one of the finest cucumbers ever grown. It is now being sold on the market and we advise market gardeners to introduce it to their trade. It is a very mild cucumber and does not have the bitter or strong taste often found in other varieties. For the home gardener a few hills of salad Cucumber will be one of the most interesting things in the garden and the crisp tasty cucumbers will provide a most delicious salad. The color is a bright, appetizing yellow. Try them and you will not be disappointed. (Pkt. 10c) (oz. 30c) (¼ lb. \$1.00) (1 lb. \$3.00) postpaid.

Japanese Climbing Cucumber This variety should be grown more extensively; it is equal to others in quality and can be grown more economically in a small garden by planting near a fence or trellis of any kind, and climbs by tendrils as a grape vine. Whether space is a factor or not, we recommend it. (Pkt. 10c) (oz. 20c) (¼ lb. 65c) (lb. \$2.00) postpaid.





Golden Self Blanching—Long Top

A & M Celery

Culture Sow one-half ounce of seed to 100 feet of drill; $\frac{1}{4}$ lb. per acre. Sow the seed from Jan. 1st to May 1st, in drills 6 inches apart, not too thick in the row to secure stalky plants. In June when the plants are strong, transplant to furrows three feet apart and six inches deep. In some districts plantings are made in double rows. Set the plants six inches apart in the furrows; as the plant grows fill the earth toward the plant to secure proper bleaching. Never allow dirt to rest on the heart of the plant. Never work in celery when it is wet with rain or dew. Spray frequently with Bordeaux, sometimes adding a little B L 40 to control worms.

Celery Rot—Do not allow water to stand during the heat of the day after irrigating. It will cause Celery Rot in the early crop.

Hollow Stem—When the growth is rank and the stalks so close that free ventilation of air is retarded during the hot weather, the stems become soft and hollow; therefore we recommend the single-row planting.

Market—The local consumption and outlying distribution disposes of a very large acreage, but owing to its erratic nature it requires a peculiar soil and professional culture. Therefore, there are few localities where it can be forced to earliness. May, June and July celery brings a high price to the grower. Then there comes an oversupply until the shipper disposes of it. When a surplus exists cold storage is resorted to, with doubtful profit, on account of the perishable nature, the shrinkage and the expense.

A & M Golden Self Blanching (California Grown Seed)

We have two distinct strains of this seed, one being the standard height while the other is 6 to 8 inches taller. Please specify on your order which you want. The tall strain of A & M Celery grows rapidly, the outer leaves are quite tall on the long tops, so that the grower may sometimes be inclined to market it before the heart is mature. Be careful about this and give it more time if necessary. If you are producing celery for the market see us about seed, for we have made a careful study of this particular crop over a period of years and can probably be of assistance to you. This type has been proven very satisfactory for shipping purposes wherever tried. Long top or short top. (Pkt. 10c) (oz. 60c) ($\frac{1}{4}$ lb. \$2.00) (lb. \$6.00) postpaid.

A & M Golden Self Blanching (French Grown Seed)

French grown seed produces very excellent Celery and is often preferred by the market growers and shippers in some districts. (Pkt. 10c) (oz. \$1.50) ($\frac{1}{4}$ lb. \$5.00) (1 lb. \$15.00) postpaid.

White Plume California grown. Its stock, inner leaves and heart are naturally white, so that simply drawing the soil up against the plant and pressing it in is all the work required for blanching. (Pkt. 10c) (oz. 40c) ($\frac{1}{4}$ lb. \$1.35) (lb. \$3.50) postpaid.

CELERIAC

Smooth Prague

A large celery flavored root used extensively for flavoring soups, pickles, etc.; also relished as a salad. (Pkt. 10c) (oz. 35c) ($\frac{1}{4}$ lb. \$1.20) (lb. \$3.50) postpaid.

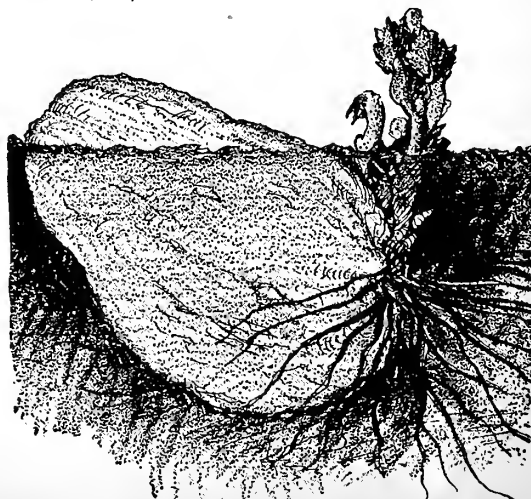
A & M Chayote

Cultural Directions One fruit envelopes one seed, which sprouts from the large end. Plant where you intend it shall grow. Cover only the large end, leaving the small end exposed. (See picture.) Or let the fruit lie around until it has well sprouted, and then plant the seed, leaving the sprout well above ground. Water freely and do not be alarmed if frost should destroy it. A new shoot will soon appear. Give it abundance of water throughout the hot summer season.

The Chayote is no longer a novelty. It has now become an article of commerce. It may be found on sale at many grocery stores throughout the season, which lasts from October until March.

The vine is a rampant grower. The first year from seed it will grow twenty to thirty feet. Destroyed to the ground by frost, it soon sends out new growth, and during the second season will extend vines forty or fifty feet in every direction. During September it starts blooming, having a small, white, insignificant flower. Within four weeks the fruit is large enough for the table. Cook in the same manner as squash. Orders shipped January, February and March only.

Each 35c postpaid.



Chayote as it Should be Planted

A & M Chicory



WITLOOF CHICORY.

Large Rooted

Seed should be sown quite thinly in shallow drills early in the spring. When well started, thin out to stand two or three inches apart in the row and give good cultivation all summer. (Pkt. 10c) (oz. 30c) (1/4 lb. \$1.00) (lb. \$3.00) postpaid.

Witloof Sow the seed in deeply prepared ground during June, July and August. In December make trenches ten inches deep and twelve or fifteen inches wide. Set the roots three inches apart in rows eight inches apart, within the trench, so the tops of the roots are eight inches below the top of the trench. Then fill with a mixture of sand and humus, water thoroughly.

This is a most delicious salad. (Pkt. 10c) (oz. 30c) (1/4 lb. \$1.00) (lb. \$3.00) postpaid.

Chives

The famous Schnittlauch — highly prized for flavor. The seed of this is not easily germinated and it will be necessary, therefore, to plant a fairly good quantity of the seed if many plants are desired. (Pkt. 15c) (1/4 oz. 85c) (oz. \$2.50) postpaid.

A & M Cress

Pepper Grass Sow curled or pepper grass thickly, in shallow drills, every two or three weeks. It should be cut often, and will continue to grow. It is used not only for salad, but on the breakfast table and for garnishing. Used with lettuce its pungency adds an agreeable flavor. (Pkt. 10c) (oz. 15c) (1/4 lb. 50c) (lb. \$1.50) postpaid.

True Water Cress Should be sown in damp soil or if a stream of water can be utilized, it would be much better. It will also thrive well in damp cold frame. Rightly managed, its culture is very profitable. (Pkt. 10c) (oz. 60c) (1/4 lb. \$2.00) postpaid.

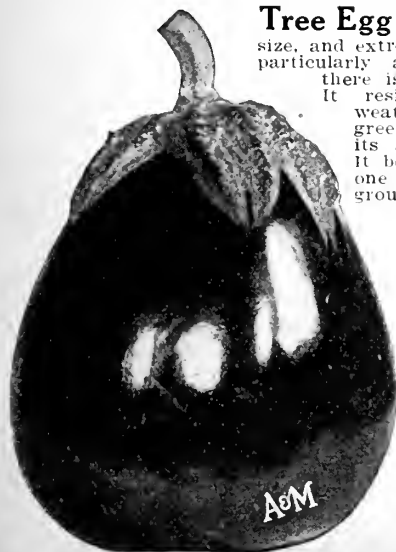
A & M Egg Plant

Culture The seed should be sown in a hotbed during December or January; it is slow to germinate and requires warm and even temperature. The plants should be ready to set out by April 1st, and may be planted as late as August 1st. Plant 2 feet apart in rows 3 feet apart. Keep well watered and pick closely as soon as large enough. In very warm protected spots they will survive the winter. Even if the foliage is destroyed sprouts may appear the following spring from the stem beneath the soil and mature marketable fruit the following May. Egg plants require four to six months to mature. One-fourth pound of seed is sufficient to plant an acre.

Tree Egg Plant This variety is of medium size, and extremely good shape, being particularly adapted to slicing, as there is no waste of material. It resists drouth and bad weather to a wonderful degree, partly on account of its strong, upright growth. It bears its fruit sometimes one or two feet above the ground, thus escaping liability to rot. It is very satisfactory for the home garden. (Pkt. 10c) (oz. 65c) (1/4 lb. \$2.25) (lb. \$6.50) postpaid.

New York Improved

This variety has superseded all others, both for market and home use. The large size and high quality of its fruit and its extreme productiveness make it the most profitable for the market gardener. It is spineless, which is a great advantage in shipping. (Pkt. 10c) (oz. 65c) (1/4 lb. \$2.25) (lb. \$6.50) postpaid.

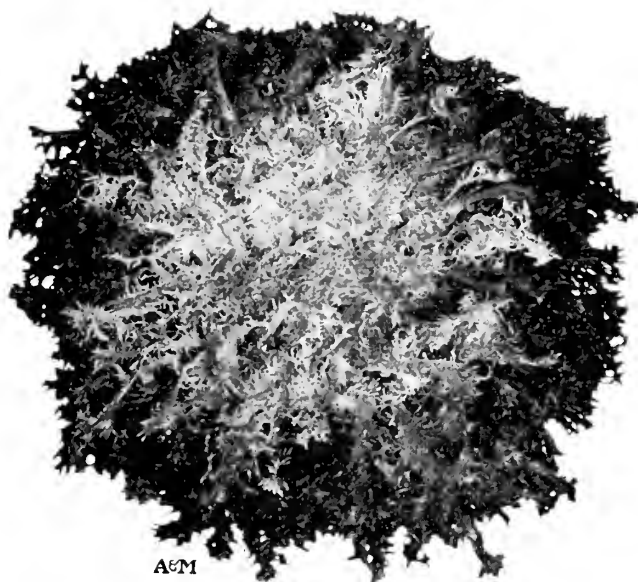


New York Improved

A & M Endive

Culture Same as for lettuce. Seed may be sown any time during the year. When plants are well started, thin out to ten inches apart or they may be transplanted. When plants have reached a good size, gather the leaves closely together and tie loosely in an upright bunch. This blanches the inner leaves in about ten days and adds to the crispness as a salad, as it renders the flavor mild and delicate. One ounce will sow 400 feet of row.

This plant furnishes an attractive and appetizing salad for the fall and winter months; by repeated sowings a supply may be had nearly all the year 'round.



A & M Green Curled Endive

Green Curled Golden Heart Leaves are finely curled or lacinated, giving the plants a rich, mossy appearance, which is greatly enhanced when the centers are nicely blanched.

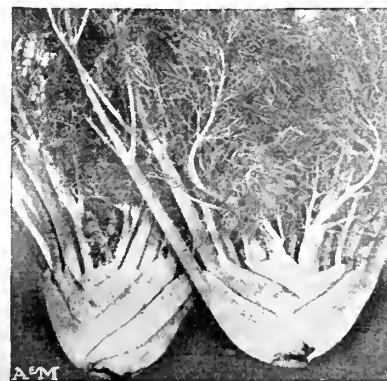
This is the variety generally preferred because it blanches to a beautiful golden yellow. (Pkt. 10c) (oz. 20c) (1/4 lb. 50c) (lb. \$1.50) postpaid.

Pancalier This Endive is earlier than most varieties. It is large and very finely curled, the ribs are tinged pink, and the centers are very dense. (Pkt. 10c) (oz. 20c) (1/4 lb. 50c) (lb. \$1.50) postpaid.

Ruffec Very large compact green curled variety 16-18 inches in diameter. It is very hardy and the hearts bleach to a good golden cream. (Pkt. 10c) (oz. 20c) (1/4 lb. 50c) (lb. \$1.50) postpaid.

Batavian or Escarol Forms large heads of broad, thick leaves, which can be blanched for a salad or it will make excellent cooked greens, as well as being useful to flavor soups, stews, etc. (Pkt. 10c) (oz. 20c) (1/4 lb. 50c) (lb. \$1.50) postpaid.

Sweet Florence Fennel



Usually grown as a fall crop being planted from July to September requiring about 3 1/2 months from seed to maturity. Sometimes planted on beds like lettuce but usually planted flat so that soil can be worked to the plants to protect the hulbs from frost.

Although usually planted in double rows it attains better size when planted in single rows about 30 in. apart.

(Pkt. 10c) (oz. 20c) (1/4 lb. 70c) (lb. \$2) postpaid.

Gourd

CULTURE—Gourds are tender annuals, of trailing or climbing habit. The seed should not be planted until the ground is warm. Plant in hills and cultivate as cucumbers. Leave only two plants in a hill, and allow the vines to ramble or train over a trellis for shading windows.

Dish Rag Gourd The peculiar fibre within the gourd gives it its name. The fruit grows about one foot long. The interior fibre is serviceable for a variety of household purposes, being used as a dish cloth, or sponge. The fibre is tough, elastic and durable. (Pkt. 10c.)

Mock Orange A good old sort, the gourd often finding its way into the family sewing basket. A beautiful and rapid climber, quickly covering trellises. (Pkt. 10c.)

Hercules Club This often grows to a length of four feet, but is not the same as the New Guinea Butter Bean which it resembles. (Pkt. 10c)

Dipper.—Bowl with long handle. (Pkt. 10c).

Bottle.—Bowl with short handle. (Pkt. 10c).

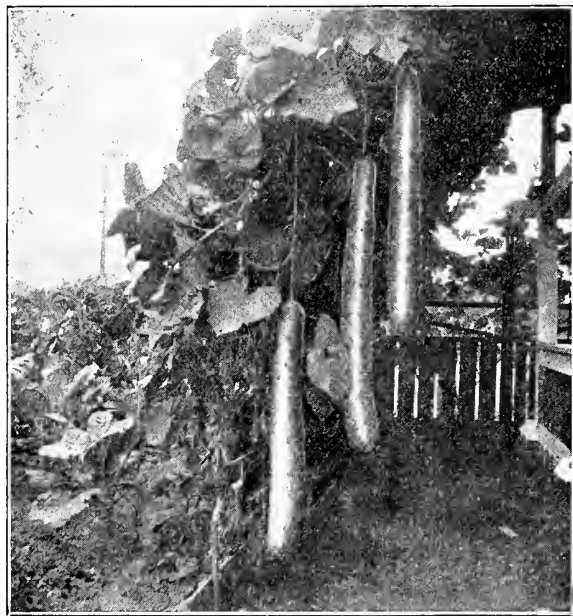
Pipe.—Often made into pipe for smoking tobacco. (Pkt. 10c).

Nest Egg.—(Pkt. 10c).

Mixed Gourds—A mixture of novel shapes and colors. (Pkt. 10c)

Edible Gourd

Very useful for providing a summer arbor. The young fruits make an excellent dish when served after the manner of squash. (Pkt. 10c) (oz. 30c) (¼ lb. 90c) postpaid.



New Guinea Butter Bean as an Arbor

Herb Seeds

Anise—Used as a cordial and for garnishing and flavoring. Seeds have an agreeable aromatic taste. (Pkt. 10c) (oz. 35c)

Basil—Sweet. The leaves are used for flavoring soups, stews and highly seasoned dishes. (Pkt. 10c) (oz. 50c)

Borage—The leaves are used for flavoring and the flowers furnish bee pasture. (Pkt. 10c) (oz. 50c)

Caraway—Grown for the seeds, which are used extensively for flavoring of bread, pastry, etc. (Pkt. 10c) (oz. 25c)

Catnip or Catmint—The leaves are used for seasoning. It also makes an excellent bee pasture. (Pkt. 10c)

Chervil—Used in soups and salads. (Pkt. 10c) (oz. 15c)

Coriander—The seeds are used in the manufacture of liquors and confectionery. (Pkt. 10c) (oz. 25c)

Dill—The seeds have an aromatic odor and warm, pungent taste. They are used as a condiment and also for pickling cucumbers. (Pkt. 10c) (oz. 25c)

Lavender—Used chiefly in the manufacture of perfumery. (Pkt. 10c) (oz. 75c).

Marjoram—Sweet. The leaves and the ends of the shoots are esteemed for seasoning in summer and are also dried for winter use. (Pkt. 10c) (oz. 75c)

Rosemary—The aromatic leaves are used for seasoning. (Pkt. 10c) (oz. \$1.00)

Sage—The most extensively used of all herbs as a seasoning for dressing. (Pkt. 10c) (oz. 75c)

Sorrel—Used in soups and salads for its pleasing flavor. (Pkt. 10c) (oz. 35c).

Summer Savory—A hardy annual. The dried stems, leaves and flowers are extensively used for flavoring—particularly in dressings and soups. (Pkt. 10c) (oz. 75c.)

Saffron—Used for flavoring. (Pkt. 10c)

Thyme—Used for seasoning. (Pkt. 10c) (oz. \$1.00).

A & M Kale



Jersey Kale

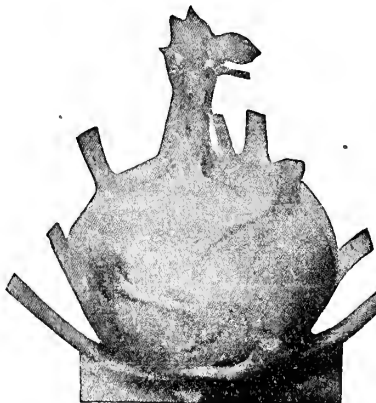
Culture Seed should be sown thinly in drills, about the middle of June for the tall sorts; 2 lbs. seed for the acre; transplant the young plants 12 inches apart in rows three feet apart. Later in the season the dwarf sorts may be sown rather thickly in drills to furnish small heads to be cooked like spinach. One ounce to 100 feet of drill.

Tall Scotch This makes a beautiful plant, 3 to 8 feet tall. The crinkled leaves resemble parsley, but they are much larger. An excellent table variety. (Pkt. 10c) (oz. 25c) (¼ lb. 45c) (lb. \$1.25) postpaid.

Jersey or Thousand Headed The large smooth leaves may be cut or broken off when they are full grown and they will soon be replaced with new ones. Ninety to one hundred pounds of green feed per week may be cut from fifty plants if they are well cared for. We furnish seed to many large poultry colonies and can supply it in large quantities. (Pkt. 10c) (oz. 20c) (¼ lb. 45c) (lb. \$1.25) postpaid.

Siberian We believe this to be superior to other varieties because it grows more greens for poultry, and is of better flavor for the table. (Pkt. 10c) (oz. 20c) (¼ lb. 45c) (lb. \$1.25) postpaid.

A & M Kohl Rabi



A & M Kohl Rabi

Seed may be sown every month in the year. Drill on ridges same as beets. Thin to three inches apart. An ounce of seed will produce 2,000 plants.

Early White Vienna

The earliest sort, very tender, excellent for table use. (Pkt. 10c) (oz. 30c) (¼ lb. \$1.00) (lb. \$3.00) postpaid.

Early Purple Vienna

Similar to above, but has flesh of purple color. (Pkt. 10c) (oz. 30c) (¼ lb. \$1.00) (lb. \$3.00) postpaid.

A & M Leek

A & M Leek We believe in having the best of everything. With this idea always before us, we have secured this fancy strain of leek. It is large, white, tender and mild—the best in the world. Its mild, delicate flavor makes a delightful addition to lettuce salad. (Pkt. 10c) (oz. 35c) (¼ lb. \$1.15) (lb. \$3.50) postpaid.



A & M Los Angeles Market

A & M Lettuce

Culture At the time of sowing the soil should be in finest possible condition, well pulverized. The plants should be grown on ridges 14 to 18 inches wide, 4 to 6 inches high and in double rows 10 to 15 inches apart. The water should be run between the ridges and not permitted to flow over the tops as this cakes the soil. Water should never be allowed to cover the plants. There should always be an adequate amount of moisture in the soil from the time the plants have commenced to head until they have matured. The hoeings necessary on raised beds will vary from one to three times. The earth around the plants should not be allowed to harden. Drill 2 lbs. of seed per acre for double rows and thin plants to 10 inches when about one inch high.

Los Angeles Market Lettuce We introduced this lettuce to the local market gardeners' trade in 1904 and in 1906 we shipped the first crate of lettuce which ever left California. This arrived in Philadelphia in satisfactory condition and was the beginning of the great lettuce shipping industry. Los Angeles Market has now become the leading variety, thousands of carloads being shipped each year, and growers and distributors have learned to depend upon the A & M strain for the best shipping type. Every pound of A & M Los Angeles Lettuce seed is from fields that have been carefully inspected for type, and our crops are otherwise given personal attention. It is one of the largest and most solid heading varieties in existence, often weighing 2½ and 3 pounds to the head, and always a prizewinner.

During the past few years there has been an insistent demand for us to put up our strain in sealed bags, and we are now offering specially branded and sealed bags of our now famous strain of A & M Los Angeles Market Lettuce for your protection, as well as ours. (Pkt. 10c) (oz. 20c) (¼ lb. 65c) (lb. \$2.00) (5 lbs. \$9.25) (10 lbs. \$17.50) postpaid.

Iceberg This is next to Los Angeles Market as the heading variety for the Southwest for the summer planting. Of course it is better during the winter months, but not so solid as the Los Angeles Market, which is strictly a winter variety, while the Iceberg is a good all-season lettuce, and hundreds of carloads of Iceberg are being shipped when the other is not available. Iceberg Lettuce planted later than March 1st should be grown on dark, heavy soil, because if grown on light, sandy soil, the heat of the sun reflected from the sand on the under side of the leaves causes them to burn almost to the heart.

The light green, curled, red-tinged leaves of the Iceberg form heads as large as the Los Angeles Market, but not so solid but it is as tender and crisp, and is of excellent flavor. (Pkt. 10c) (oz. 20c) (¼ lb. 65c) (lb. \$2.00) postpaid.

Early Curled Simpson This is a very popular variety as a loose leaf lettuce. The leaves are large, thin, very tender and of a very good quality. (Pkt. 10c) (oz. 20c) (¼ lb. 50c) (lb. \$1.50) postpaid.

Hanson Without exception this is the best variety for late spring and mid-summer crop. Prof. F. W. Mally, Farm Demonstrator of Webb County, Texas, discovered Hanson Lettuce to be resistant to both heat and disease, and particularly resistant to eel worm which is often prevalent where least expected. Hanson Lettuce is similar to the Iceberg Lettuce, except that it has not the tinge of red. We recommend it for the home garden. (Pkt. 10c) (oz. 20c) (¼ lb. 50c) (lb. \$1.50) postpaid.

Big Boston Very large, smooth-leaved, solid-heading variety grown extensively throughout the east and south. It is congenial to all climates, and is a good shipper. In flavor it probably excels all other smooth-leaved varieties. An excellent all year round lettuce. (Pkt. 10c) (oz. 20c) (¼ lb. 65c) (lb. \$2.00) postpaid.

Chicken Lettuce This variety of lettuce should not be confused with the regular heading or loose-leaved varieties. The plant grows very much like kale, to a height of four to five feet, with much growth of leaf. It is used mainly for chicken and rabbit feeding. It does not head and is seldom if ever used for table purposes. The wonderful leaf growth makes it ideal for green food for chickens, etc. (Pkt. 10c) (oz. 20c) (¼ lb. 50c) (lb. \$1.50) postpaid.



Paris White Cos (Romaine)

Paris White Cos (Romaine)

This might well be spoken of as the "Aristocrat" for the reason it is used almost exclusively at aristocratic clubs and hotels for salads, because it is crisp and has a delicious, nutty flavor.

Gardeners would profit to give more attention to this variety. (Pkt. 10c) (oz. 20c) (¼ lb. 65c) (lb. \$2.00) postpaid.

A & M Muskmelons

Culture The soil must be thoroughly soaked down to submoisture, either by rain or irrigation. When dry enough plow ten or twelve inches deep. Thoroughly pulverize the soil. Prepare furrows eight to ten inches deep and 6 feet apart. Plant from February 15th to June 15th; however earlier plantings may be made by using Hotkaps as a protection. Sow 6 or 8 seeds to the hill. Plants should be left 4 feet apart in the rows.

As the plants grow gather the soil around until the roots are twelve inches or more below the surface. Thin out all surplus plants as soon as they are hardy and well established. The rows are now straight and an equal distance apart. This makes it easy to cultivate close to the hills, both lengthwise and crosswise. Cultivate deeply as long as there is no danger of disturbing the roots. Be always mindful that the roots are as long as the vine, therefore when working close to the hills and among the vines, let the hoeing or cultivating be shallow.

Always cultivate the irrigation furrow as soon as the soil is dry enough to mulch nicely.

If this rule is intelligently adhered to your vines will never suffer from drouth, or root blight, and will be healthier in every way, because the roots are deep down in the cool, moist earth unaffected by the heat of the sun. This is the secret of success with all midsummer crops.

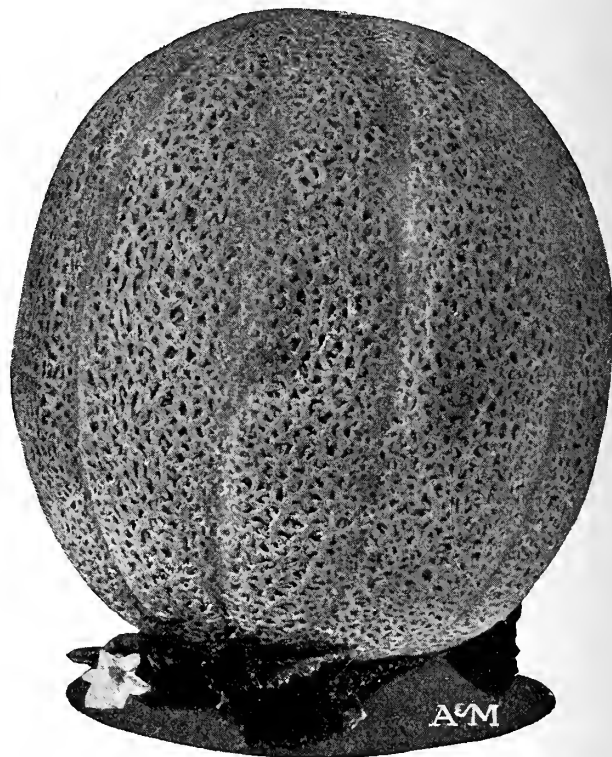
Hale's Best An extra early salmon tint of remarkable flavor. The seed cavity is small and the attractive salmon tinted flesh is firm. Melons are oblong, well netted and very attractive. It is ten days to two weeks earlier than other shipping varieties and yields wonderfully well. Large quantities are being planted in the Imperial Valley for shipping purposes. Our strain of seeds is regular A & M quality from carefully rogued fields. (Pkt. 10c) (oz. 20c) (¼ lb. 60c) (lb. \$1.75) postpaid.

Improved Perfecto This is a new and very promising type of the Rocky Ford. Growing and shipping trials of these during the past season proved very satisfactory and there is reason to believe that it will become a most popular shipping and marketing variety. The seed cavity is triangular and small; the flesh being extremely thick, sweet and spicy; the meat is pink. Melons are almost perfectly round, heavily netted, no ribs and the shipping qualities are splendid. (Pkt. 10c) (oz. 20c) (¼ lb. 60c) (lb. \$1.75) postpaid.

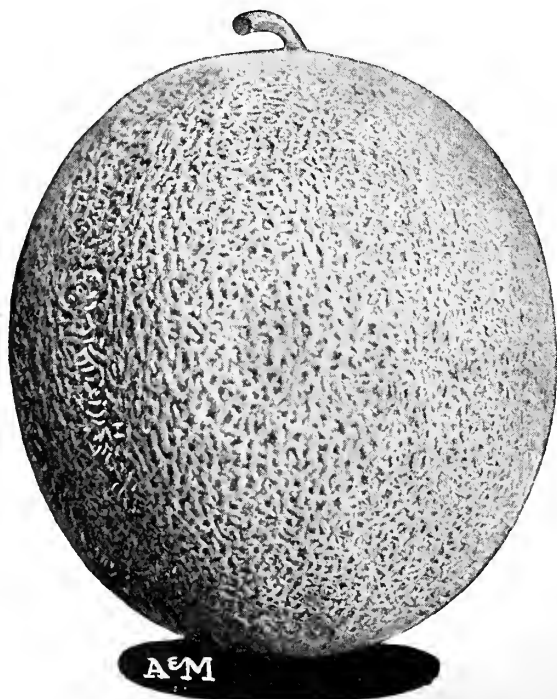
The Famous Indiana This melon has a rich yellow flesh and a flavor that may be compared with the Persian.

It is heavily netted, very thick meat and holds up in good condition for several days. (Pkt. 10c) (oz. 20c) (¼ lb. 65c) (lb. \$2.00) postpaid.

Rocky Ford The well known improved Netted Gem. A very early small melon, oblong, slightly ribbed, heavily netted, having green flesh of excellent flavor. (Pkt. 10c) (oz. 20c) (¼ lb. 50c) (lb. \$1.50) postpaid.



Hale's Best



Improved Perfecto

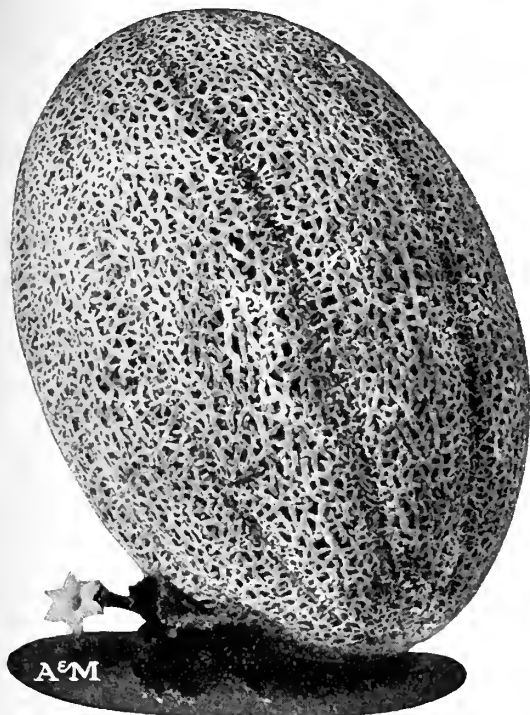
Pollock 10-25 An improved strain of the popular Rocky Ford. It eliminates every defect of all other strains. Perfect in size, shape, netting, flavor, and long keeping and good shipping qualities. (Pkt. 10c) (oz. 20c) (¼ lb. 50c) (lb. \$1.50) postpaid.

Nicholson's Honey Ball A cross between Honey Dew and Texas Cannonball. It is a late season variety and very prolific—some vines yielding as many as 25 melons to the plant. The fruit has a thick wall of copper tinged green meat clear to the rind and it has fine shipping qualities. Several thousand acres are planted in the Imperial Valley each year. Average weight is 4 lbs. (Pkt. 10c) (oz 25c) (¼ lb. 85c) (1 lb. \$2.50) postpaid.

Irondequoit This excellent melon originated in Irondequoit, New York; hence its name. It is as popular in New York City as the Tip-top is in Los Angeles.

It may well be called the Improved Tip-top, for that is what it is. The appearance is similar except the netting which is heavier; it is more solid and less prone to split. The average size is slightly larger; the flesh is yellow and the flavor unsurpassed. It is an ideal melon for the peddler or the cafeteria. It is neither too large nor too small. (Pkt. 10c) (oz. 25c) (¼ lb. 85c) (lb. \$2.50) postpaid.

Melons—Continued



Improved Burrell's Gem

A & M Honey Dew This melon has won its way into favor wholly because of its excellent flavor and good keeping qualities. It is enormously prolific. It is ready to pull when the green luster has changed toward a creamy yellow. It is not ready to be eaten until like the Casaba, you can make an impression with the thumb as in a mellow apple.

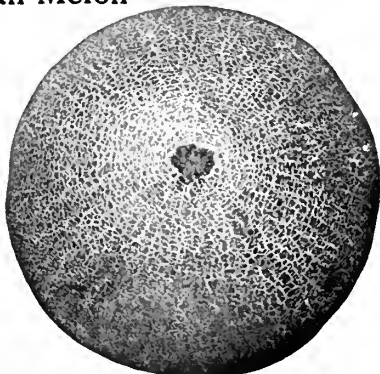
Flesh is light green and sweet as honey. The rind is light green or silvery-gray in color, smooth as an egg and hard as the rind of a winter squash. It is therefore a good shipper. (Pkt. 10c) (oz. 20c) (¼ lb. 65c) (lb. \$2.00) postpaid.

Yellow Fleshed Honey Dew When the Honey Dew Melon was introduced it quickly became popular. One would not believe another melon could be better, but the Honey Dew hybridized with the Tip Top produced a melon of the same outside appearance as the Honey Dew but with a deep yellow flesh that is positively more delicious. Do not hesitate to plant it if for the home garden or for shipping. (Pkt. 10c) (oz. 25c) (¼ lb. 75c) (lb. \$2.25) postpaid.

Baby Persian In every respect this is equal to the regular Persian Melon but its uniform size of approximately 6 inches in diameter makes it very desirable for packing in crates. Very useful for small families when larger melons are not required. (Pkt. 10c) (oz. 40c) (¼ lb. \$1.35) (lb. \$4.00) postpaid.

A & M Persian Melon

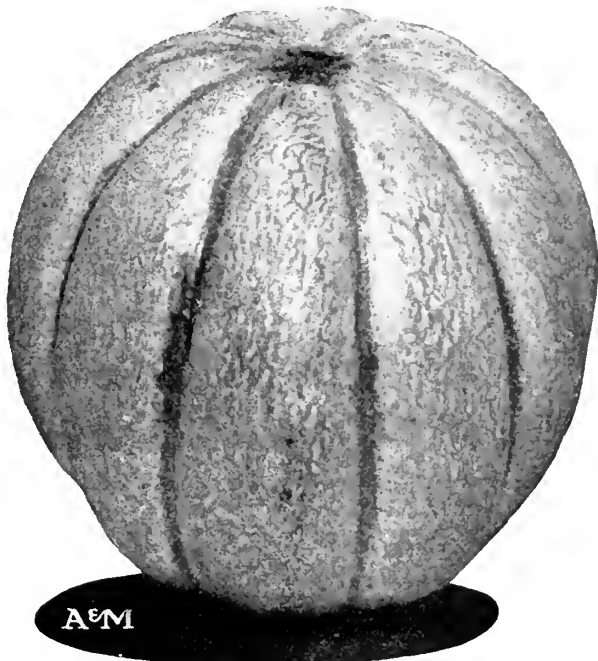
Large, extremely netted, without ridges, thick yellow flesh of delightful flavor. A good keeper and a good shipper. It should be picked while yet quite solid. Customers should be educated to purchase half a dozen at a time and set them away to be eaten as they become mellow like a Casaba. When properly picked they are ready for the table within six to ten days. (Pkt. 10c) (oz. 40c) (¼ lb. \$1.35) (lb. \$4.00) postpaid.



A & M Persian

A & M Tip Top This popular muskmelon is another triumph for Aggeler and Musser Seed Company because of our effort years ago to introduce it. The gardener was slow to accept it, but knowing its merits we persisted in offering it. It is now one of the most popular muskmelons grown for the local market. The yellow flesh is edible to the rind. The melon is of medium size. (Pkt. 10c) (oz. 20c) (¼ lb. 50c) (lb. \$1.50) postpaid.

Improved Burrell's Gem Has established itself as a standard melon. It is one of the biggest yielders. The shipper calls for it because it is solid and carries well in transit. The consumer wants it because of its excellent flavor. The growers all want our seed because we have the best strain. (Pkt. 10c) (oz. 20c) (¼ lb. 50c) (lb. \$1.50) postpaid.



Tip Top

Turkish Melon This is one of the excellent melons brought to California by the Armenians. Its flavor is equal to the Persian melon. It has yellow flesh and resembles the Persian melon in every way except that it shows on the rind a faint stripe and is without the heavy netting. Do not hesitate to order it for it is just as good as the Persian for the home garden or nearby market. (Pkt. 10c) (oz. 30c) (¼ lb. \$1.00) (lb. \$3.00) postpaid.

Oriental or Japanese

This melon appears to be a cross between Golden Beauty Casaba and Persian Melon. It has the same salmon tinted flesh as the latter but the texture is as fine as a casaba, and the flavor is very sweet. The rind is thin and is of a yellowish green color with darker blotches. When ripe the fruit averages 7 or 8 lbs. Market gardeners are recommended to grow this for local trade. (Pkt. 10c) (oz. 50c) (¼ lb. \$1.65) (lb. \$5.00) postpaid.



Watermelons will not cross with cantaloupes, squash, or other vine crops; but they do cross readily with the stock melons or citrons, which are a common weed in many places. The result of such crossing does not affect the quality of the fruit, but gives hybrid seed, which if planted the following year, produces inedible melons. Hence seed should not be saved where there is danger of crossing with citrons.

MELONS—Continued Next Page

A & M Casabas

Culture In general the culture for Casabas is the same as for melon. Plant Casabas according to locality, from February 15th until June 15th, in furrows 8 feet apart. For late shipping many are planted from June 1st to July 15th. Casabas may be taken from the vine as soon as they lose the green lustre, but should not be eaten until the hard rind of such varieties as the Pineapple and Golden Beauty will give slightly under pressure of the thumb. The Improved Hybrid in particular is not at its best until quite an impression can be made with the thumb as in a mellow apple. The best way to keep the Casaba late into the Fall is to gather them together in the hill, leaving them attached to the vines and covering them completely with the vines. They should be planted about 8 feet apart each way and it requires about one pound of seed for an acre.



Golden Beauty

Introduced by us in 1906, it at once became popular locally. It is now grown more extensively throughout California than any other casaba because of its beautiful appearance, and delicious flavor. Distributors also prefer it as it stands up well after long journeys in carload shipments. Where a melon is required for fall or late consumption this variety is planted more than any other. (Pkt. 10c) (oz. 20c) (¼ lb. 65c) (lb. \$2.00) postpaid.

Santa Claus As the name implies, this variety is recommended for planting in June or July for gathering in the fall and holding for consumption in December and January. It is a fairly good keeper when stored in a cool ventilated place and care being taken that the fruits do not touch one another. It is a delightful present to send to your Eastern friends at Christmas. It is of delicious flavor, beautiful in its mottled gold and black coloring. (Pkt. 10c) (oz. 30c) (¼ lb. \$1.00) (lb. \$3.00) postpaid.

FOR ALL KINDS OF MELONS

FOR APHIS—First keep the vines hardy by deep planting and proper cultivation, irrigation and fertilizing. Then if the aphid appears, which is unlikely, spray with Nico-Dust, or bury the affected part with dust. Either way is a constant fight. Lady bugs in some instances are destroying the aphids very satisfactorily.

FOR MELON BLIGHT that is caused by a fungus at the root, spray the hill freely with Bordeaux so that the liquid will follow the stem several inches beneath the surface. This should be done as a precaution rather than as a remedy.

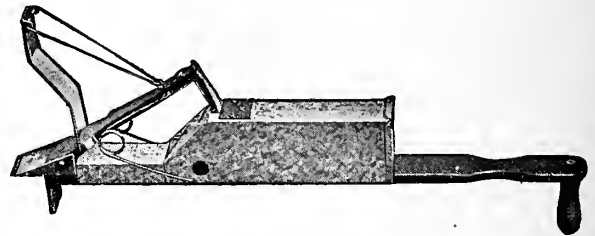
READ THIS. If you would prolong the life of your vines, make a path between the rows by training the vines to grow along the rows and not across from one row to the other.

For a good yield of melons grow a crop of Melilotus indica during the winter. Plow under during February; broadcast two sacks of each of Toro Sulphur and lime. This is a precaution against blight and will fertilize your field as nothing else will do.

A & M Hybrid A cross between the Winter Pineapple and the Montreal Muskmelon. It grows to a very large size and is of delicious flavor. It is a rampant grower and yields enormously; as many as seventeen large melons were taken from one vine. It is profitable early and late. This melon is now grown as extensively for a midsummer crop as the muskmelon, and finds a ready sale. Plant from March 1st until July 15th. (Pkt. 10c) (oz. 25c) (¼ lb. 85c) (lb. \$2.50) postpaid.

Golden Hybrid Just as the green Pineapple Casaba changed to the bright yellow Golden Beauty, so did the large green Hybrid Casaba change to the Golden Hybrid which we introduced in 1917. At that time we stated that it would in a few years supersede the Green Hybrid. (Pkt. 10c) (oz. 35c) (¼ lb. \$1.00) (lb. \$3.00) postpaid.

Winter Pineapple This is the first of Casabas introduced into America. We have carefully maintained the purity of type so that it is now just as distinct as when introduced more than forty years ago. This and the Golden Beauty are identical in all except color, which when mature is light green. The Winter Pineapple is more profitable as a late melon, therefore we recommend to growers near the Coast that it be planted during June. (Pkt. 10c) (oz. 20c) (¼ lb. 70c) (lb. \$2.00) postpaid.



SEGMENT CORN PLANTER

Growers who are planting a large acreage of melons will find this Planter will do the work in good time and do it well. It is especially good for replanting. Weight 5 lbs. Price \$2.50 by express. If wanted by mail, add postage.

A & M Watermelons

We grow every pound of our Watermelon Seed and field roguing is conducted under the most stringent rules. We probably supply the most critical trade in the country—the large growers of the Imperial Valley and other watermelon producing sections of the great southwest, where melons are produced for shipment to outside territory.

Culture Generally speaking, the same cultural directions for muskmelons apply also to watermelons. Plant the seed in furrows, dropping ten seeds every eight or ten feet apart; cover about one inch. The furrows should be eight feet apart. When the plants are established, thin out, leaving two vines to the hill. Plant 1 to 1½ lbs. of seed to the acre.

Stone Mountain This melon, very popular in the South, grows very large and is almost round. It is rich dark green in color, has a medium rind and the flesh is deep red. It is drought resisting and will produce a profitable crop of late melons when other melons are sometimes scarce. (Pkt. 10c) (oz. 20c) (¼ lb. 50c) (lb. \$1.50) postpaid.

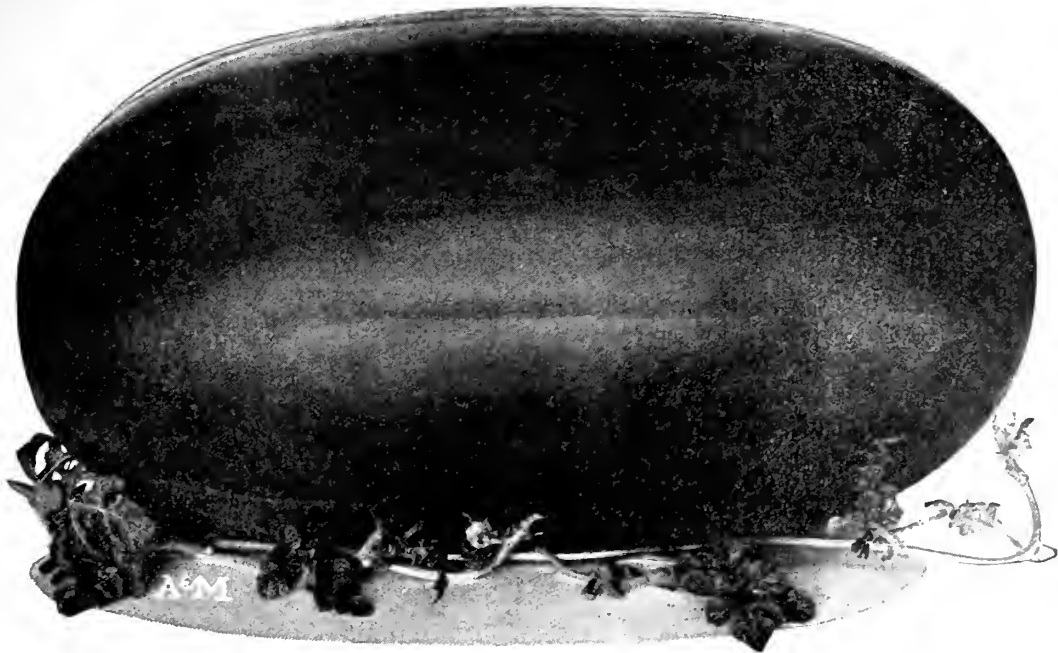
Black Seeded Chilean Most every Californian knows the Chilean Melon and those who do not know it in California or elsewhere have missed a real treat in melons. Its thin rind and delicious flavor make it one of the best home garden varieties. Our strain of seed produces a good shipping melon and one that is a favorite not only with the grower but with the dealer. It is very prolific and a most desirable size for market. (Pkt. 10c) (oz. 20c) (¼ lb. 45c) (lb. \$1.25) postpaid.

White Seeded Chilean Just as much to be desired as the black seeded variety, except to those who prefer the black seed. All Chileans are good regardless of the color of the seed, but the black seeded one is planted for the early crop. (Pkt. 10c) (oz. 20c) (¼ lb. 45c) (lb. \$1.25) postpaid.

Watermelons—Continued Next Page



Black Seeded Chilean



A & M Klondike Watermelon

The Genuine Strain A & M Klondike Watermelon is without doubt the most popular melon in the State of California. We introduced the Klondike in 1909 and naturally we are very proud of its present reputation. The Imperial Valley alone grows several thousand acres of them for shipment to outside territory and they are always the first melon to arrive on the Los Angeles market. The meat is a rich, bright red and very appetizing. Vendors along the boulevards always cut a Klondike when they wish to attract customers. The rind is thick enough to protect the melon in shipping and yet it is not a thick, heavy rind like many varieties. If you are planting for market or for home consumption you will not go wrong by planting the Klondike. The genuine A & M strain is put up in sealed bags for your protection. (Pkt. 10c) (oz. 25c) (¼ lb. 85c) (1 lb. \$2.50) (5 lbs. \$11.00) 10 lbs. \$20.00 postpaid.

Black Seeded Angeleno This is another triumph for Aggeler and Musser Seed Company. We hybridized the original white seed Angeleno with Black Seeded Chilian and got the desired results the first season. It required but two years more to perfect the type. The flavor was also improved.

As a shipper it is extraordinary because it rarely breaks, even supporting the weight of a man weighing 170 pounds. A carload will average in weight from 25 to 30 pounds to the melon. (Pkt. 10c) (oz. 20c) (¼ lb. 50c) (lb. \$1.50) (5 lbs. \$6.50) (10 lbs. \$11.50) postpaid.

White Seeded Angeleno The most attractive in appearance of all watermelons—its large size, beautiful dark green rind with a tinge of gold showing through the green. No other variety compares with the Angeleno in its bright red flesh, red to the rind, and it is entirely free from fibre. (Pkt. 10c) (oz. 20c) (¼ lb. 50c) (lb. \$1.50) (5 lbs. \$6.50) (10 lbs. \$11.50).

Excel To the grower and shipper who wants a large melon the Excel fills the bill. It is oblong, dark green with a suspicion of a stripe, and will average 35 lbs. and is of excellent flavor. It is a good shipper and has maintained its popularity for many years. Our seed is from our own growing and is true to type. (Pkt. 10c) (oz. 20c) (¼ lb. 40c) (lb. \$1.25) postpaid.

Kleckley Sweet

This is an excellent melon either for the home garden or for shipping. It is of medium size, a very green rind, with deep red flesh of delicious flavor. Kleckley's is planted quite extensively in the Salt River Valley of Arizona and other southern districts. (Pkt. 10c) (oz. 20c) (¼ lb. 40c) (lb. \$1.25) postpaid.

Florida Favorite

This melon is very popular with shippers, because of its extreme earliness, and all round good qualities as a good shipper. In appearance it is similar to the Rattlesnake, the rind being considerably darker. (Pkt. 10c) (oz. 20c) (¼ lb. 40c) (lb. \$1.25) postpaid.

Tom Watson has for several seasons been the most popular melon in the South. Its shape is similar to the Kleckley Sweet, but the color is a lighter green. Its great merit is in its earliness, good flavor, thin rind, and good keeping qualities, making it one of the best of shippers. (Pkt. 10c) (oz. 20c) (¼ lb. 45c) (lb. \$1.25) postpaid.

Rattlesnake Has long been a popular melon with shippers. It is a long melon, having a white rind, with dark green stripes. Flesh of excellent flavor. (Pkt. 10c) (oz. 20c) (¼ lb. 40c) (lb. \$1.25) postpaid.

Yellow-Fleshed Ice Cream This melon grows a very large size, is long in shape and the rind an even dark green. In quality it is simply delicious, sugary and of a rich flavor peculiar to itself. (Pkt. 10c) (oz. 20c) (¼ lb. 50c) (lb. \$1.50) postpaid.

Winter Melon This melon is slowly but surely forcing itself into favor because of the many good qualities which are not apparent at first acquaintance. The flavor when cold is sweet, crisp and surprisingly delicious, and when you have finished you realize that you have eaten a melon as entirely distinct from a water melon, as the Casaba is apart from the Cantaloupe and just as delicious. Like the Casaba it should not be eaten right off the vine, but be allowed to lie around until the first signs of decay. It decays slowly like an apple, not like other watermelons. (Pkt. 10c) (oz. 35c) (¼ lb. \$1.00) (lb. \$3.00) postpaid.



A & M Winter Melon, also King and Queen

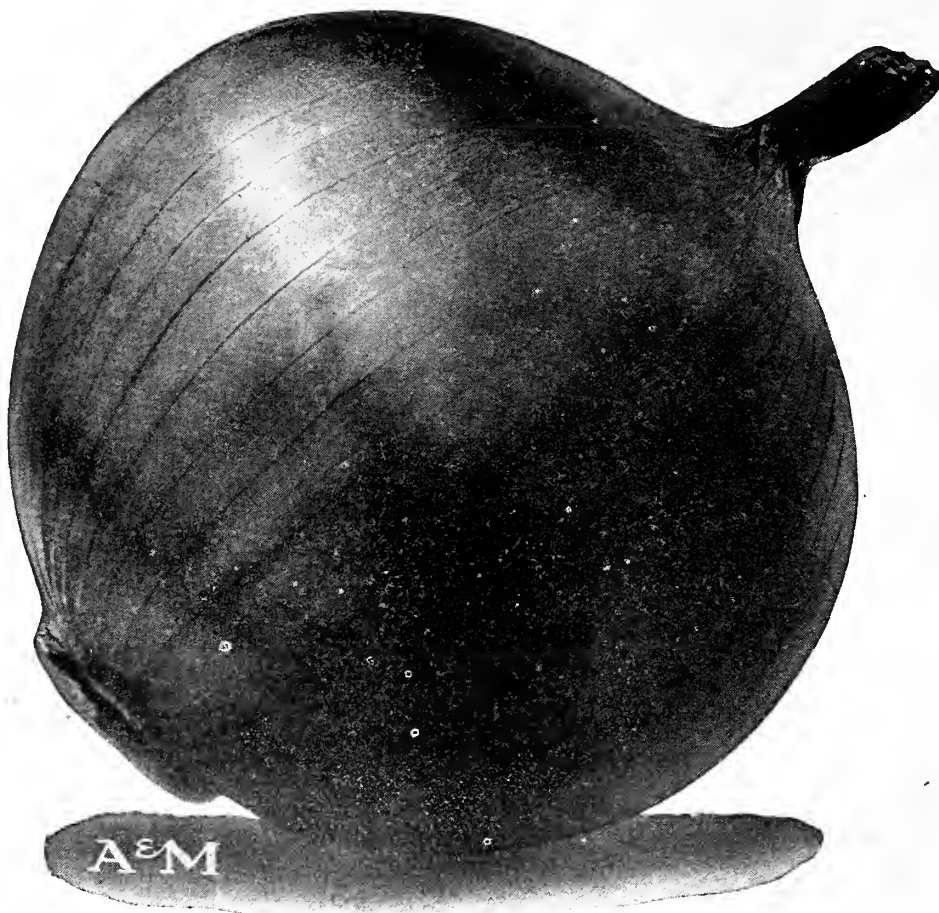
Citron Large Green

Weights from thirty to sixty lbs. Is better than pumpkin for stock. Allowed to lay in field or piled in the barnyard will not be damaged by frost nor decay until the following summer. (Pkt. 10c) (oz. 20c) (¼ lb. 35c) (lb. \$1.00) postpaid.

Preserving Citron

Red Seeded, small round melon. This melon with a proper portion of lemon makes an excellent preserve that is as good as marmalade. (Pkt. 10c) (oz. 20c) (¼ lb. 40c) (lb. \$1.25) postpaid.

A & M Onions



A & M Riverside Sweet Spanish Onion

A & M RIVERSIDE SWEET SPANISH

A & M Riverside Sweet Spanish Onion is a separate and distinct strain of the original imported sweet Spanish onion and was developed by us a few years ago. By careful plant selection we have each year improved the type until the A & M Riverside Sweet Spanish Onion is recognized by best authorities as superior to all other strains in flavor, mildness, good keeping qualities and yield per acre. This onion is very popular and commands the highest market price.

It is a large, well shaped brown onion weighing from 1 to 3 pounds. It is unusually mild but still retains its genuine onion flavor. Planted at the proper time and thoroughly cured it is a good keeper and will ship as good as any other shipping onion. It requires about 3 pounds of seed to plant one acre, if planting is made directly in the field, this being the system mostly used in California. For best results sow November-December; however it may also be planted in the spring. Planting in the seed bed for transplanting requires about 1½ lbs. of seed per acre. In irrigated districts plant in double rows on ridges, having the rows on the ridges about 8 inches apart and 24 inches between the double rows. The size of the onion can be regulated by the distance between onions and the closer they are together the smaller will be the onion. To produce the larger size they should be thinned to 6 or 8 inches between plants. It is important to keep a uniform moisture content in the soil and to keep them growing continuously from the time they are up until harvested. Drying off from lack of moisture may start new buds and may result in splits or goose-necks. Reported yields are from 50,000 pounds to more than 100,000 pounds per acre. Packed in specially branded and sealed bags. (Pkt. 10c) (oz. 40c) (¼ lb. \$1.35) (1 lb. \$4.00) postpaid. No onion sets of this variety.

A & M WHITE SWEET SPANISH

In flavor, uniformity and mildness this new onion is just as good as the now famous A & M Riverside Sweet Spanish. It is a good keeper, good shipper and the pure white skin is of course most desirable. Many letters of recommendation have come to us from all parts of the country indicating that it may be successfully grown in any soil where other onions are being produced. Many growers and dealers are trying to imitate the A & M Riverside Sweet Spanish and the A & M White Sweet Spanish and we have found in many cases where growers have been disappointed in their crops because the seed they planted was not the true variety. These two onions are genuine A & M introductions and they are not some other variety renamed. The seed crops are grown under our personal supervision so that we are in a position to furnish true type stock without any danger of mixture. For your protection as well as ours, the seed of these is packed in specially printed and sealed bags. (Pkt. 10c) (oz. 60c) (¼ lb. \$2.00) (lb. \$6.00) postpaid.

Last February I planted one regular 10c packet of your Riverside Sweet Spanish Onion seed in sandy loam, soil that had grown Whip-poor-will Cow Peas the season before. In October I harvested 150 lbs. of Onions, the largest being 5¼ inches in diameter and weighing 42 ozs. Many of them weighed more than 2 lbs. each. They are the finest, juiciest and sweetest onions I ever ate, and what we have not used are keeping perfectly so far.

T. K., San Diego.

I raised 5,000 lbs. of A & M Sweet Spanish Onions last year on 1/7 of an acre. They are the best Onions I ever saw.

E. W. M., El Cajon, Calif.

Two A & M Super Fine Strains of Onion—Grown from Coast to Coast

A & M Onions—Continued

Culture No crop is so liable to variations by cultivation and soil as the onion. Having rich soil with too much irrigation will produce thick-necked scallions, while the same soil, well drained, would produce the finest onions. A sandy loam well fertilized is best.

No vegetable is so sensitive to variations of climate as the onion. It is of utmost importance that the right variety is selected for each month in the year, and for your particular climatic conditions.

Irrigate in the furrow between the ridges to avoid flooding the onion, which causes the onion to rot readily, rendering it unfit to ship or to keep.

Two pounds of seed are required to produce plants for one acre for dry mature onions. One ounce will plant one hundred feet of row. For bunching onions, plant one-fourth pound of seed to 100 feet of row or 10 lbs. per acre.

We claim our onion seed to be the highest type as to germination and purity. When you wish to plant onions consult us as to when, how and what variety to plant.

Australian Brown Quick to mature; a good keeper; solid and heavy; an excellent onion for shipping. The skin is a light brown. Its solidity gives it great weight and a sack weighs several pounds heavier than a sack of many other kinds. The onions are thin-necked and ripen very early in all soils. As the plant makes a very quick growth it matures the bulbs before the hot, dry summer weather sets in, and this in connection with the exceptional keeping qualities makes it a most profitable variety. (Pkt. 10c) (oz. 20c) (¼ lb. 60c) (lb. \$1.75) postpaid.

White Portugal, or Silverskin A good second early white flat onion to follow the Extra Early White Queen. It should be planted any time from November 1st until April 1st. It is a good keeper and desired for shipping. Under good cultivation the average diameter is from four to six inches. The thick skin is a clear silvery white, flesh snow-white, sweet and tender. (Pkt. 10c) (oz. 25c) (¼ lb. 85c) (lb. \$2.50) postpaid.

Southport White Globe There is an increasing demand for white onions and this variety is very popular being used extensively for shipping purposes. It is a good keeper, either in the field or in cold storage. It is silvery white in color, globe shaped, and of delicious flavor. (Pkt. 10c) (oz. 30c) (¼ lb. \$1.00) (lb. \$3.00).



Crystal Wax

Crystal Wax The Crystal Wax is a medium sized pure waxy white onion and is one of the mildest sorts grown. The seed of this variety is generally sown in seed beds and the plants transplanted to the field when they are five or six inches high. Planted the latter part of September, they mature in March and April and usually bring the highest market price. It is grown extensively in Southern California and Texas. (Pkt. 10c) (oz. 30c) (¼ lb. \$1.00) (lb. \$3.00) postpaid.

Extra Early White Queen This is one of the best onions to plant for early production in Southern California. Planted during August and September it attains marketable size in March and April and is sold on the local market as early as the Bermuda. Local growers market them while quite young, cutting the top off close to the onion. They harvest only what can be sold from day to day. This practice is very profitable for the reason you are selling a green onion at the price of the early dry onion. (Pkt. 10c) (oz. 30c) (¼ lb. \$1.00) (lb. \$3.00) postpaid.

Yellow Bermuda This variety goes hand in hand with the Crystal Wax and should be given the same culture. It is about the same size as the Crystal Wax but is a yellow straw color and is slightly better for shipping over long distances. Our seed is a heavy producer and there will be very few off colored onions. (Pkt. 10c) (oz. 25c) (¼ lb. 85c) (lb. \$2.50) postpaid.

Yellow Globe Danvers The shape is almost globe form and the bulbs are quite large with thin necks. The skin is a straw yellow, while the flesh is pure white, solid and of good quality. Its earliness makes it valuable for market. The crop is very uniform and ripens at one time. (Pkt. 10c) (oz. 25c) (¼ lb. 85c) (lb. \$2.50) postpaid.



A & M Bunching Onion

Selected especially for market gardeners who are growing onions for bunching.

Many think any white onion will do for a bunching onion, but this is not true. Our growers for fancy trade have learned that we have the best strain of seed for this purpose, and our sales amount to thousands of lbs. each year. The picture shows a sample of what our seeds produce. They are just the right shape. (Pkt. 10c) (oz. 30c) (¼ lb. \$1.00) (lb. \$3.00) postpaid.

Red Bermuda In shape, like the White Bermuda, color a pale red.

Planted during January matures latter part of June. No other onion is ready for use so quickly after planting seed.

It is the right onion for the home garden. (Pkt. 10c) (oz. 50c) (¼ lb. \$1.65) (lb. \$5.00) postpaid.

Red Wethersfield Probably the most popular red onion, and the one grown more largely throughout the United States than any other. It is a large medium flat onion of excellent mild flavor. (Pkt. 10c) (oz. 20c) (¼ lb. 70c) (lb. \$2.00) postpaid.

The Italian Red Bottle Onion is as popular in some sections of Northern California as is the Sweet Spanish Onion in Southern California. It grows as large, weighing 3 to 4 pounds and has a similar sweet, non-pungent flavor.

Whether you grow for the local market or in the home garden, you will make no mistake to plant this onion. Any consumer who once having eaten them will want more. (Pkt. 10c) (oz. 60c) (¼ lb. \$2.00) (lb. \$6.00).

A & M Onion Sets

The earliest onions are grown from sets planted in September. This brings them in the market in February and March, when prices are highest. About 250 lbs. of sets will plant one acre.

State whether you wish white sets or yellow. We have no sets of the Riverside Sweet Spanish.

Set them three inches apart in rows six inches apart. When ready for use, take up every other one as needed, allowing the balance to grow to mature size. One pound of sets will plant about fifty feet of row. (Lb. 35c postpaid) (10 lbs. \$3.00 postpaid). Write for quantity prices.



The proper way to grow Onions is on ridges

A & M Okra

A good and healthful vegetable for a summer crop.

Culture—Plant seed from April 1st until Aug. 15th. Plant six to ten inches apart in rows three feet apart. One ounce will plant one hundred feet of row.

A & M Early Greenpod

We have for a long time endeavored to produce an okra that is earlier than the White Velvet, which has long been the popular market variety. We have succeeded by selection, in producing not only an earlier variety, but a much more tender and prolific okra, and have named it A & M Early Greenpod.

It is just the thing for truckers in the Coachella and Imperial Valleys, because it matures in April, fully a month ahead of other varieties; bears continuously until late in the season.

The pods are three to four inches long, deep green in color, and when young are absolutely stringless.

Every early trucker should have this variety. (Pkt. 10c) (oz. 20c) (¼ lb. 35c) (lb. \$1.00) postpaid.

White Velvet On account of its attractive white color, good flavor and tender pods when quite young, it has long been a favorite variety. (Pkt. 10c) (oz. 20c) (¼ lb. 35c) (lb. \$1.00) postpaid.



White Velvet

A & M Mustard

Yellow Seeded The seed is used extensively for spicing, pickling and other culinary and medicinal purposes. The young plants make delicious greens. (Pkt. 10c) (oz. 20c) (lb. 50c) postpaid.

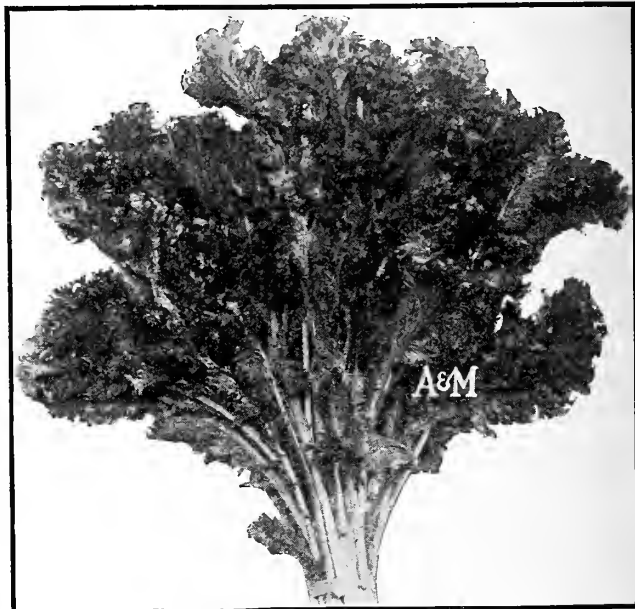
Southern Giant The true curled-leaf variety so popular in the South for planting in the fall. (Pkt. 10c) (oz. 20c) (¼ lb. 35c) (lb. \$1.00) postpaid.

Ostrich Plume Is delicious as well as ornamental; the leaves resemble ostrich plumes, hence the name. (Pkt. 10c) (oz. 20c) (¼ lb. 35c) (lb. \$1.00) postpaid.

Chinese White This is a delicious vegetable and savors strongly of Brussels Sprouts, being less pungent than the American varieties. It is greatly relished by the Orientals, and can be seen all the year 'round at vegetable stands kept by the Japanese and Chinese. (Pkt. 10c) (oz. 40c) (¼ lb. \$1.35) (lb. \$4.00) postpaid.

Chinese Green This is an Oriental vegetable, and like the White Mustard, is grown all the year 'round, but like our American Spinach, thrives best in the winter season. (Pkt. 10c) (oz. 40c) (¼ lb. \$1.35) (lb. \$4.00) postpaid.

Mammoth Long Pod We have greatly improved the original strain and now its productiveness is simply wonderful, the pods shooting out from the bottom of the stalk within three inches of the ground, and the whole plant is covered with them to the height of a man's head, five or six feet. Pods are an intense green in color, of unusual length, nine or ten inches, tender, and of good flavor. (Pkt. 10c) (oz. 20c) (¼ lb. 35c) (lb. \$1.00) postpaid.



A & M Southern Giant Mustard

A & M Mushrooms

Mushrooms can be grown in any dark room or cellar where the temperature can be kept at 50 to 75 degrees. The main conditions in mushroom growing are proper and uniform temperature, and very rich soil. One pound of spawn is sufficient for a bed 2x8 feet. We have the very best spawn obtainable.

Many inquiries come to us from would-be growers of mushrooms. Our reply is not always encouraging because many growers have marvelous success for a time, but we know of not one permanently prosperous grower. There seems to be an element of uncertainty.

Pure Culture Spawn—Brandywine—Put up in bricks. (Per brick 40c) (5 bricks \$1.75) postpaid.

A & M Parsley

Culture The seed usually takes 3 to 4 weeks to germinate and it is best to soak it in water about 12 hours before planting. Sow in drills a foot apart and thin plant to 4 inches.

A & M Champion Moss Curled An immense acreage of this parsley is grown in Southern California for the local market and for shipping to outside territory. A small plot of this in the garden will furnish garnishing material almost the year around. (Pkt. 10c) (oz. 20c) (¼ lb. 45c) (lb. \$1.25) postpaid.

Plain or Smooth-leaved This variety has a richer parsley flavor than the curled varieties and should be preferred for the home garden. It is not profitable to the market gardener for the reason that the curled variety will produce much more per acre. (Pkt. 10c) (oz. 20c) (¼ lb. 45c) (lb. \$1.25) postpaid.

Extra Double Curled A good curled variety for garnishing. (Pkt. 10c) (oz. 20c) (¼ lb. 45c) (lb. \$1.25) postpaid.

Hamburg Turnip Rooted Fleshy vegetable roots for soups, etc. (Pkt. 10c) (oz. 20c) (¼ lb. 45c) (lb. \$1.25) postpaid.



Champion Moss Curled Parsley

A & M Garden Peas

Market gardeners write for quantity prices on all varieties.

Culture Peas are very susceptible to soil and climate. Within the radius of a few miles of Los Angeles and in one locality or another, peas may be grown every month of the year.

In a thermal zone plant peas from September 1st to February 1st, and in lowlands from January 1st to September 1st. In summer months, from May to September, plant two inches deep in heavy soil and deeper in sandy soil. From December to April plant not more than one inch deep. The object of this is to have the seed deep enough to lie in the moist earth, and shallow enough to get warmth from the sun. Never irrigate after planting peas until they come up. Irrigate before planting, but do not plant until the soil is tillable.

Peas will rot in soil that is too wet, especially during the winter months. They will stand a great deal of frost and cold weather until they bloom, but after they bloom a heavy frost will destroy the pods, and if cold enough, will kill the vines. Many planters sow one hundred pounds of seed per acre, but fifty pounds of seed per acre drilled in rows and well cultivated will produce larger pods and more peas per acre; besides, there will be less mildew. If mildew appears, dust with sulphur. Put the rows north and south for winter planting to give them as much sun as possible.

The following varieties are best adapted for planting in the fall in California—Hundredfold, Laxton's Progress, Dwarf Telephone, Laxtonian, Admiral and Stratagem.

Admiral or Senator This is still one of the favorite varieties in some sections of Southern California. It has dark green foliage, large branching vines, bears abundantly and the pods are large and well filled. In favored sections it matures in about twelve weeks from planting. We suggest that commercial growers include a few of these in their order and try them out. Height 2½ feet. (Pkt. 10c) (Jumbo pkt. 15c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) postpaid.

American Wonder The earliest of all wrinkled peas. Of dwarf habit, growing from 9 to 11 inches high, and producing a profusion of good-sized and well-filled pods of the finest flavor. (Pkt. 10c) (Jumbo pkt. 15c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) postpaid.

Dwarf Telephone Medium tall; pods very large; medium green peas, very sweet; a favorite with shippers because it carries well and commands a high price because of quality. Height 20 inches. (Pkt. 10c) (Jumbo pkt. 15c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) postpaid.

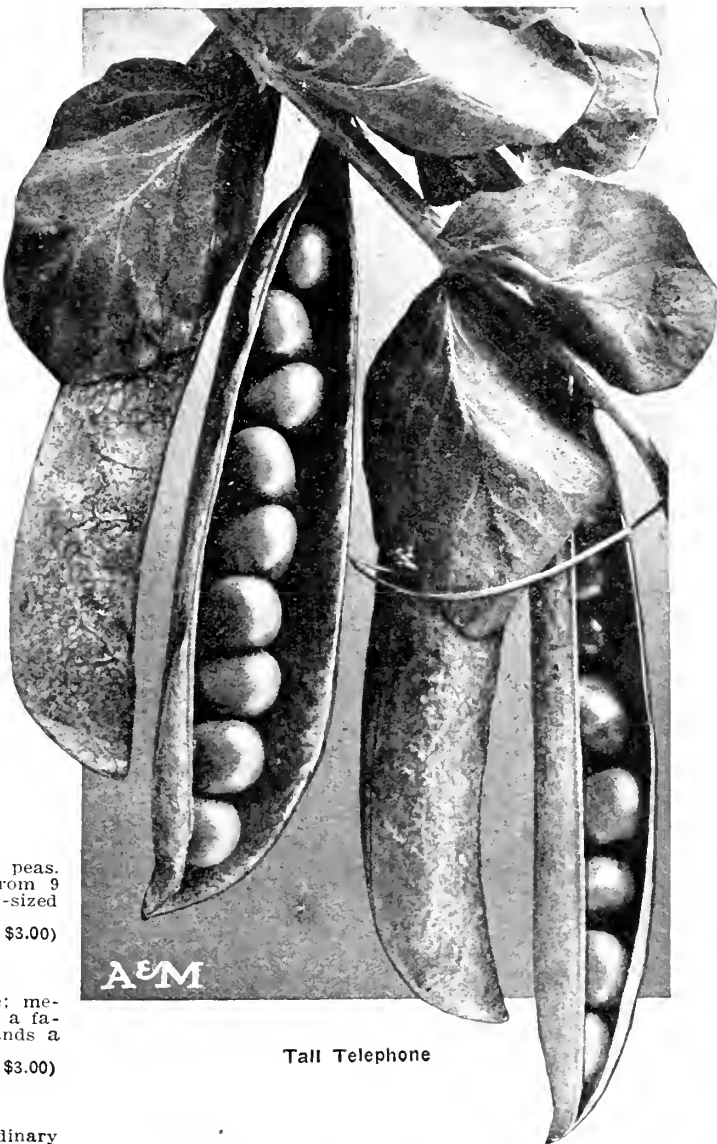
Dwarf Gray Sugar (Edible pods.) Of extraordinary yielding qualities, and unsurpassed as an edible-pod variety. (Pkt. 10c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) postpaid.

A & M Hundredfold Plantings of these in the Imperial Valley and other pea producing sections have aroused considerable enthusiasm for the variety and it is now considered one of the leading varieties. It is dwarf, stands up well, and produces abundantly. The large pods are well filled with highly flavored and sweet peas. Height 18 inches. (Pkt. 10c) (Jumbo pkt. 15c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) postpaid.

A & M Laxtonian Commercial growers of peas for shipments to eastern market have learned to depend upon A & M Laxtonian Peas. We sell great quantities of this variety to particular growers who want the best. It is the standard early variety for the west coast of Mexico, Imperial Valley and other large producing districts. In habit of growth it is medium dwarf, bearing pods five to six inches long, and yielding enormously. September plantings in the Imperial Valley are ready for picking in November and in some cases we have known them to be ready for picking within 50 to 55 days after planting. Height 18 inches. (Pkt. 10c) (Jumbo pkt. 15c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) postpaid.

Laxton's Progress Similar type of pea to Laxtonian, foliage being of a dark green color. The pods are long and also of a dark hue. It is a very desirable variety and has become very popular with market gardeners. For home gardens it is also highly recommended. Height 18 inches. (Per pkt. 10c) (Jumbo pkt. 15c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) postpaid.

NOTE—For increased yield, inoculate peas before sowing with McQueen's Inoculator



Tall Telephone

Tall Telephone Vines vigorous, growing about 4 to 5 feet high, with large, coarse, light-colored leaves and producing an abundance of very large pods filled with immense peas which are tender, sweet, and of excellent flavor. If grown on poles or trellis in the same manner as Kentucky Wonder Beans, more pods are produced and they are larger and brighter in appearance. (Pkt. 10c) (Jumbo pkt. 15c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) postpaid.

Nott's Excelsior Although a few days later than the American Wonder, the pods will average fully one-third larger, containing 6 to 8 large peas, so closely packed together that they become flattened. Height 15 inches. (Pkt. 10c) (Jumbo pkt. 15c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) postpaid.

Stratagem The Stratagem has been a favorite among market gardeners and it is just as good for the home garden as it is for larger acreages. The pods are a dark green color and remain firm several days after picking. It is a strong grower, very prolific, the pods are of good size and are always well filled. The vines usually stand upright, to a height of about 2 feet on good soil and they are very productive. The dark green color of the pod makes it a good seller in all markets and in addition to this the grower is usually rewarded with a good yield. (Pkt. 10c) (Jumbo pkt. 15c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) postpaid.

Yorkshire Hero A very popular market pea in this section. Abundant cropper and excellent in quality. Height 2½ feet. (Pkt. 10c) (Jumbo pkt. 15c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) postpaid.

A & M Peppers



A & M California Wonder

Culture For early green peppers, sow seed in hot beds in December and January. Transplant as soon as weather and soil in your locality will permit. For main crop sow seed in February, March and April, in hot bed. Pepper seeds need the heat of a hot bed to germinate it during these months. For fall and winter crop sow seed in out-door beds well prepared, during May and June. Winter crops can be grown in places that are entirely frostless. Sow at the rate of 6 ozs. of seed per acre.

For field culture the plants are set eighteen inches apart in rows 3 to 4 feet apart.

A & M California Wonder Pepper

In size these superb peppers average 4 inches in length and $3\frac{1}{2}$ inches in diameter, with a very slight taper, making them almost square. The weight is approximately 9 ozs., which is considerably heavier than any other pepper of the same size. This additional weight is due to the thick walls which are very meaty, being $\frac{1}{4}$ to $\frac{3}{8}$ inches in thickness. Because of the shape they pack well for shipping and being solid will not wilt in transit. The rich, deep green skin is smooth and glossy. This variety is also excellent for the home garden and when used for salad purposes, for stuffing or otherwise, will please the most critical. We have specialized in peppers for a number of years and consider this one of the most important introductions of recent times. (Pkt. 10c) (oz. \$1.00) ($\frac{1}{4}$ lb. \$3.25) (lb. \$10.00) postpaid.

A & M Chinese Giant There is probably no better strain of this pepper than the one we have and since we have given particular attention to selection for uniform shape, we think we have the finest strain for shipping purposes. The sidewalls are thick and where they are given proper cultivation the yield is enormous. (Pkt. 10c) (oz. 65c) ($\frac{1}{4}$ lb. \$2.25) (lb. \$6.50) postpaid.

A & M Pimiento Every home garden should have a row of this Pimiento. For salad parboil it to remove the skin. Stuffed and baked it is far superior to all other peppers. (Pkt. 10c) (oz. 45c) ($\frac{1}{4}$ lb. \$1.50) (lb. \$4.50) postpaid.

Perfection Pimiento One of the mildest flavoured peppers in cultivation—so mild it can be eaten raw as an apple. It is an excellent salad pepper and is also much in demand for canning. In size it is much larger than the ordinary Pimiento. (Pkt. 10c) (oz. 60c) ($\frac{1}{4}$ lb. \$2.00) (lb. \$6.00) postpaid.

Bell or Bull Nose Do not confuse this with the Chinese Giant. It is similar in shape but scarcely more than half as large. It is much more prolific and a very desirable variety for the home garden. (Pkt. 10c) (oz. 45c) ($\frac{1}{4}$ lb. \$1.50) (lb. \$4.50) postpaid.

Ruby King A very satisfactory pepper for the home garden and used to some extent by market gardeners. It bears in profusion, handsome fruit, 4 to 5 inches in length and about 3 inches in diameter. Fruits are a rich, dark green while young, turning ruby red when ripe and the flesh is thick and meaty. (Pkt. 10c) (oz. 60c) ($\frac{1}{4}$ lb. \$2.00) (lb. \$6.00) postpaid.



Perfection Pimiento

Gardening Books

The following books are standard and authentic works on Vegetable and Flower cultivation. They were written expressly for California and similar sections by the late Professor E. J. Wickson.

California Garden Flowers, Shrubs, Trees and Vines (250 pages), each \$2.00, by mail \$2.10.

California Vegetables in Garden and Field (300 pages), each \$2.50, by mail \$2.60.

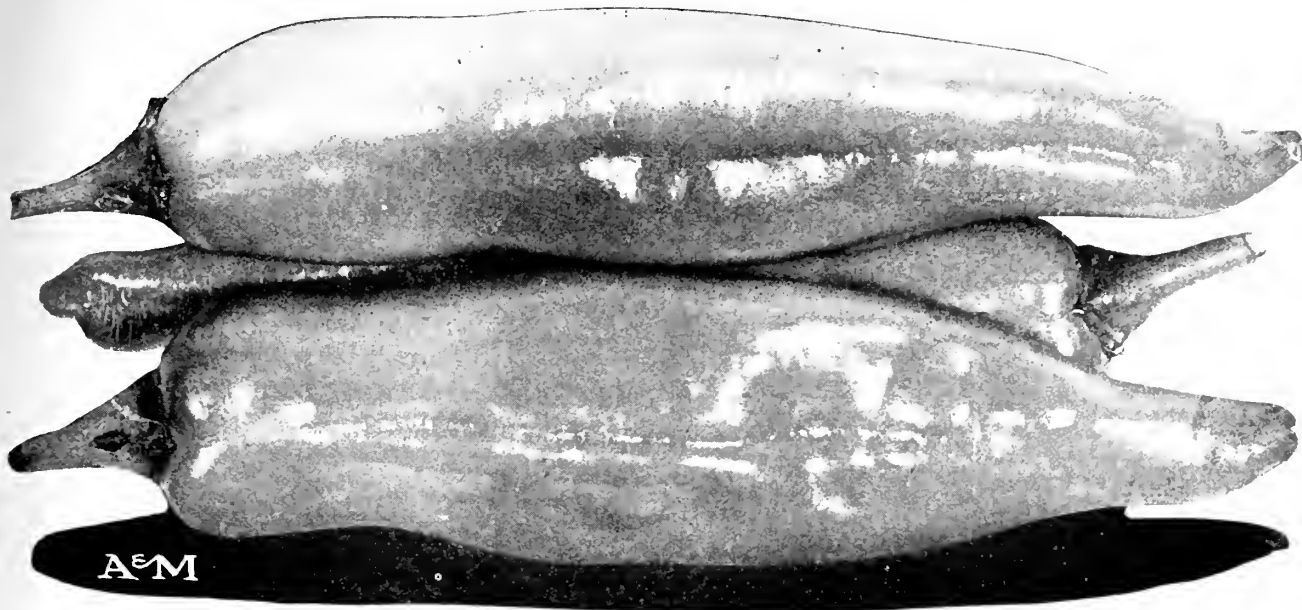
California Fruits and How to Grow Them (500 pages), each \$4.00, by mail \$4.10.

The Tomato and Pepper Seed which I ordered from you in January are the best I have ever planted. I think every seed came up.
C. E. R., Yava, Ariz.

I am very pleased with your seed as previous lots purchased from you proved exceptionally clean and pure, also maintaining a high percentage in germinating.

E. F. W., Las Vegas, Nevada.

Peppers—Continued



Anaheim Chili

Anaheim Chili Peppers Anaheim Chili is desired above all others for culinary use because of its agreeable pungency. Other pungent varieties are intolerable, not so with the Anaheim Chili. That is what makes it the best seller in the market and the best pungent variety for canning. (Pkt. 10c) (oz. 60c) (¼ lb. \$2.00) (lb. \$6.00) postpaid.

Spanish Gem Like the Floral Gem it is very pungent with a flavor that is desired for pickling. In size it will average from ¾ to 1 inch in diameter, and 1 inch to 1½ inches in length. It is marketed when quite yellow. (Pkt. 10c) (oz. 75c) (¼ lb. \$2.25) (lb. \$8.00) postpaid.

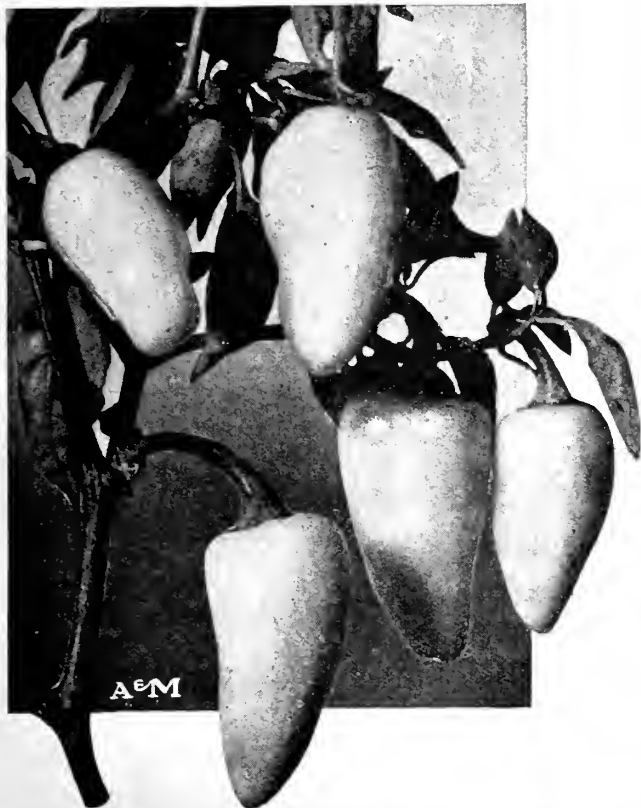
Floral Gem This beautiful yellow pepper became popular several years ago. It is 1½ inches in diameter, 1½ to 3 inches long, delightfully pungent with a flavor quite distinct from other peppers, and commands an independent price. The supply has not yet caught up with the ever-increasing demand. This pepper turns from green to a beautiful waxy yellow. When mature it is red. It is marketed when yellow. (Pkt. 10c) (oz. 75c) (¼ lb. \$2.25) (lb. \$8.00) postpaid.

Mexican Chili In a class by itself on account of its extreme pungency. It is not canned but is used almost exclusively for grinding and sold as cayenne, the trade of which is surprising. Our seed is pure and taken from selected peppers grown far from other varieties. (Pkt. 10c) (oz. 50c) (¼ lb. \$1.65) (lb. \$5.00) postpaid.

Cayenne A long, slim pepper, rather pointed, and when ripe, a bright red color. Extremely pungent. (Pkt. 10c) (oz. 80c) (¼ lb. \$2.65) (lb. \$8.00) postpaid.

Small Chili This small pepper is ½ inch in diameter, and two to three inches long. Is very pungent and marketed when quite green, although it is also sold when it has become red. It is an old time favorite and finds a market with canners and at stores catering to the Spanish population. (Pkt. 10c) (oz. 80c) postpaid.

Cherry A very pungent pepper, round as a cherry, about one inch in diameter, marketed when green. Used largely in pickling and by the foreign trade. There is a profit to the person who will specialize on this and other small pungent peppers. (Pkt. 10c) (oz. 80c) postpaid.



Floral Gem

A & M Peanuts

READ—The Peanut is too much neglected. Its various uses are of great economic value. Its value as a food is well known, but few ranchers realize its value as a soil renovator, adding humus and nitrogen. As hog food, there is nothing better. The straw is rich in food value and may be pastured green, cured as hay or ensilage, and the yield of hay is often from two or more tons per acre. It grows on soil that may be too sandy for other crops. Therefore, if you have sandy soil, make it valuable by planting peanuts.

Virginia Improved This variety is much superior to the ordinary Peanut, yielding fewer imperfect pods and combining earliness, productiveness and size; yields on ordinary land about 40 sacks to the acre. Plant 18 inches apart in rows 3 feet apart. Drop 2 kernels to the hill. (Lb. 35c) (10 lbs. \$3.00) postpaid. Write for quantity price.

Spanish Hulled This is the small peanut used so largely in confectionery lines, salted peanuts, etc. It is very prolific and is more profitable to grow as a crop than the Virginia. They grow in small compact bunch on a small vine and are easily harvested. Plant 20 to 30 pounds of hulled nuts per acre in furrows 2 to 3 inches deep and about one foot apart in the rows, with the rows far enough apart to allow for harsh cultivation. (Lb. 35c) (10 lbs. \$3.00) postpaid.

Ask for Peanut circular.

A & M Parsnips

A & M French Half Long Parsnip



Culture The seed of parsnips should be sown during the fall and winter months in Southern California and similar climates. It requires about one ounce of seed to plant a 100 ft. row and about 5 lbs. per acre. Do not apply manure soon before planting, for it tends to make coarse roots of uneven shape.

A & M Hollow Crown This variety is in general use for both table and stock feeding. The color is pure white, it is uniformly smooth and is of good texture and flavor. (Pkt. 10c) (oz. 20c) (¼ lb. 35c) (lb. \$1.00) postpaid.

French Half Long There is a great demand for this Parsnip because it has all of the good qualities of other parsnips and only grows about one-half as long. It is easily harvested, is of good quality, being tender and crisp at all times. It is very desirable particularly for heavy soils and is a good home garden variety because it is easily dug. (Pkt. 10c) (oz. 20c) (¼ lb. 35c) (lb. \$1.00) postpaid.

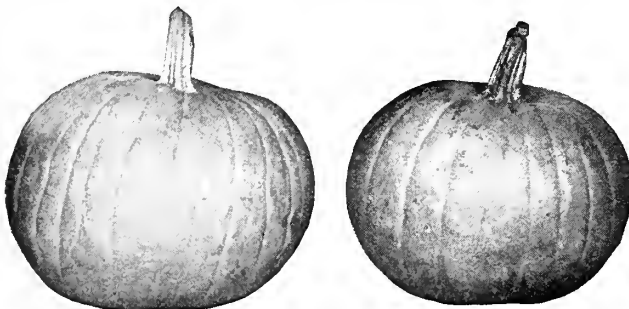
A & M Devonshire This Parsnip was recommended to us by our European growers. It is scarcely more than half as long as the Hollow Crown, but it is often three inches in diameter. Tender and has an excellent flavor. (Pkt. 10c) (oz. 20c) (¼ lb. 35c) (lb. \$1.00) postpaid.

A & M Pumpkin

Culture Pumpkins delight in rich, sandy soil that is perpetually moist—the soil that retains moisture by the dry farming method, because pumpkins do not want too much water, and to flood them would destroy them, so when irrigating make the furrows nearly as far from the hill as the tip of the vine, and when the vines intersect, run the water through the middle of the row. Plant the seeds every 8 or 10 feet, allowing only one plant to remain. 1 lb. of seed plants an acre.

Kentucky Field or Large Cheese This variety is locally called Sweet Pumpkin, and is grown more than any other of its kind for stock, because it is a good keeper, notwithstanding it has a soft shell. It is fleshy and very sweet; also good for pie, and is largely used for canning. On one large ranch in the San Fernando Valley there was planted a large acreage to nearly all the popular varieties; this one was unaffected by the hot sun, and remained in perfect condition while other varieties were sun-burned and decayed quickly. (Pkt. 10c) (¼ lb. 35c) (lb. \$1.00) postpaid.

Estampes We have the purest stock seed from which to grow this pumpkin. It is the heaviest pumpkin for its size that we know of; 100 pounds is not an unusual size for them to attain. It is the canner's favorite because of its thick, deep red flesh and the fine sweet flavor. It is without exception the best for dairy stock, and only the scarcity of the seed has prevented it from being more widely known. We are informed by dairy-men that the percentage of butter-fat is increased greatly as the result of feeding this pumpkin. (Pkt. 10c) (¼ lb. 50c) (lb. \$1.50) postpaid.



Sugar, or Boston Pie

Sugar or Boston Pie A small handsome variety, and very popular. The skin is a deep orange yellow; flesh fine grained and sweet in taste. Famous in Boston as a pie pumpkin. It sells better on our local market than any other variety except the Jack o' Lantern at Hallowe'en time. (Pkt. 10c) (¼ lb. 45c) (lb. \$1.25) postpaid.



Connecticut Field (Jack-o'-Lantern)

Sandwich Island The most popular pumpkin in Ventura County. It is as hardy as a citron. A good one to plant where water is scarce. (Pkt. 10c) (¼ lb. 35c) (lb. \$1.00) postpaid.

Mammoth King This is the large pumpkin so well known locally. As many as 20 tons have been taken from one acre. It not infrequently attains a weight of 200 pounds. (Pkt. 10c) (oz. 20c) (¼ lb. 60c) (lb. \$1.75) postpaid.

Cushaw or Crookneck This excellent pumpkin ought to be planted more largely. There is more pumpkin for its size because of the small seed cavity. It is excellent for pies, and yields enormously. (Pkt. 10c) (¼ lb. 45c) (lb. \$1.25) postpaid.

Connecticut Field (The Jack-o'-Lantern)—This is the Halloween and Thanksgiving trade, at which time they bring \$20.00 per ton, and two cents per pound at retail stores. Twenty tons to the acre is no unusual yield. If the land has been manured liberally a full crop can be grown among corn. It is a most excellent keeper, and will be sure wealth to all who grow and feed it liberally. (Pkt. 10c) (¼ lb. 45c) (lb. \$1.25) postpaid.

Pumpkin Seed for Medicinal Purposes

Pumpkin Seed is oftentimes in demand in the case of certain ailments, the seed being steeped in the same manner as tea. We can offer seed suitable for this purpose. (¼ lb. 35c) (lb. \$1.00) postpaid.

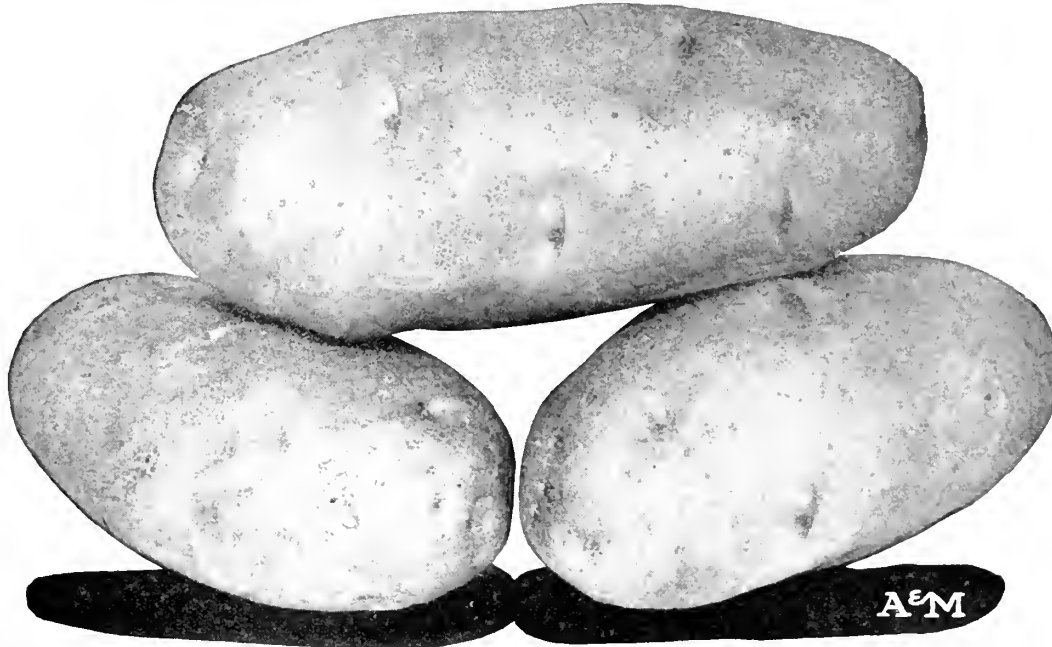
A & M Potatoes

Culture Plant potatoes deeper in sandy soil than in heavier ground, a good average depth being 5 inches. They should be spaced 14 inches apart in the rows with the rows 30 inches apart. When dividing tubers for planting do not cut the pieces too small. Each piece should be at least one cubic inch and have at least two eyes. Better results will be obtained if the cut surface is allowed to dry or heal for 24 hours before planting, and some growers make a practice of dusting with sulphur or lime. Plant 600 pounds per acre for the spring crop and 800 to 900 lbs. per acre for early crops when potatoes are dug small.

If potatoes follow alfalfa or melilotus, good yields can usually be obtained without the use of commercial fertilizer, but A & M Special Potato Fertilizer listed below will be found profitable. Keep the soil moist at all times. Do not judge moisture by the appearance of the plants as when they become dark green or begin to turn yellow it is then too late to apply water for best results. It is advisable to cultivate often to conserve moisture and keep down weeds. When cultivating, throw the earth toward the plants a little higher each time until at the last cultivation the ridges are six to ten inches high and broad in proportion so the tubers will be kept cool and free from tuber moth infection.

Potato Inspection All seed potatoes are subject to rigorous inspection by County Horticultural authorities, thus ensuring great protection to the grower.

Prices As market conditions vary considerably, we invite you to write for prices, stating quantity required and we will be pleased to quote lowest prices in conformity with our high standard of quality.



Early White Rose

Early White Rose The most popular potato for Southern California is undoubtedly Early White Rose, for the reason that for many years it has proven more satisfactory under varied conditions than other varieties. It is not particular as to soil. It matures quickly, making it a good variety to grow without irrigation and it is out of the ground before nematode and other enemies have done great injury. Because of its earliness it costs less to grow. In stock December 1st to May. (5 lbs. 40c) (10 lbs. 75c) (25 lbs. \$1.35) Postage extra. Write for quantity prices.

Early Red Rose This variety is generally cooked whole when quite young and is therefore very desirable for the home garden and for market lug box business, where there is a demand for new potatoes. Red potatoes do not have a ready sale in sack trade. Plant during December, January and February. (5 lbs. 40c) (10 lbs. 75c) (25 lbs. \$1.35) Postage extra. Write for quantity prices.

British Queen Especially profitable to grow for a fall crop as it stands drought and cool weather better than other sorts. Hundreds of acres are planted during the fall months on the hillsides along the coast and in other parts of the State. Our stock is grown and graded for seed purposes and we are thus in a position to furnish high grade seed. In stock October to February 1st. (5 lbs. 40c) (10 lbs. 75c) (25 lbs. \$1.35) Postage extra. Write for quantity prices.

A & M Special Potato Fertilizer Prepared especially for potatoes. (\$3.35 per 100 lbs.) f. o. b. Los Angeles. Write for quantity price.

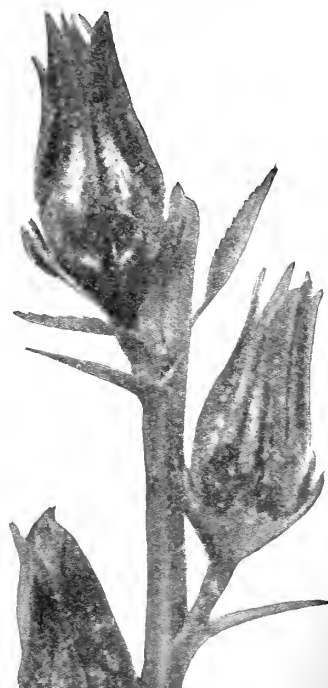
DIP TREATMENT OF POTATOES

To growers who wish to disinfect potatoes before planting, we highly recommend SEMESAN BEL, a preparation designed specifically to furnish an easy, rapid and simple method of seed potato disinfection. Semesan Bel dries quickly on the seed forming a thin coating of disinfectant. Surface-borne organisms of rhizoctonia, scab and black leg are usually destroyed. The treatment also frequently promotes more uniform germination of seed pieces and often improves the stand and the vigor of the plants. Semesan Bel readily mixes with cold water. One pound will make 10 quarts of dip and will treat approximately 1,200 lbs. of whole or large seed pieces and about 850 lbs. of small or cut seed. PRICES—(4 oz. tin 50c) (1 lb. tin \$1.75) (5 lb. tin \$8.00) (25 lb. pail \$31.25) f. o. b. Los Angeles. Cannot be mailed. (Write for descriptive circular.)

A & M Roselle

Culture — Sow seed early in April in the field, four feet apart, in rows six feet apart. Cultivate as Okra. There is an early and a late Roselle. Be sure to get the early variety, because the frost is almost sure to destroy the late variety before it matures. We offer only the early variety.

It is an annual plant that has been sufficiently tested to indicate its great value and to warrant more extended cultivation. The calyx surrounding the seed pod is used as soon as the flower drops for making jelly and jam. The jelly is superior to guava or currant, and labeled as "Queensland Jelly." is shipped from Australia to all parts of Europe. It is easily grown from seed if planted after the ground is warm; grows rapidly, resists drouth and is very ornamental. Every home garden should have a row of this ornamental and useful plant. (Pkt. 10c) (oz. 75c) (1/4 lb. \$2.50) postpaid.



Roselle Buds

A & M Radish



Early Scarlet Globe

Culture Seed may be sown the year 'round in California. Radishes thrive best in light, sandy loam, made rich with manure. Sow in drills 10 inches apart. An ounce of seed will sow a hundred feet of row, 12 pounds to the acre.

Early Scarlet Globe Very popular variety on the Los Angeles market. The radishes are oval in shape and are a rich scarlet color. (Pkt. 10c) (oz. 20c) (¼ lb. 45c) (lb. \$1.25) (5 lbs. \$6.00) (10 lbs. \$11.00) postpaid.

Scarlet Turnip White Tip An early variety of medium size and excellent flavor and of a very handsome appearance. (Pkt. 10c) (oz. 20c) (¼ lb. 45c) (lb. \$1.25) (5 lbs. \$6.00) (10 lbs. \$11.00) postpaid.

Early Scarlet Turnip One of the earliest and best sorts for forcing; its color is very handsome; flavor very mild, crisp and juicy; stands a great amount of heat without becoming pithy. (Pkt. 10c) (oz. 20c) (¼ lb. 45c) (lb. \$1.25) (5 lbs. \$6.00) (10 lbs. \$11.00) postpaid.

French Breakfast A splendid variety, medium-sized, olive-shaped, very crisp and tender; of a beautiful scarlet color. (Pkt. 10c) (oz. 20c) (¼ lb. 45c) (lb. \$1.25) postpaid.

Crimson Giant A variety extraordinary in that, while growing to an unusually large size, it is always tender, crisp and of mild flavor. It remains in perfect condition a remarkably long time, and unlike other forcing varieties, does not become pithy; root turnip shaped; color a beautiful crimson; flesh firm and crisp. (Pkt. 10c) (oz. 20c) (¼ lb. 45c) (lb. \$1.25) postpaid.

Long White Icicle For the home garden we consider this a most excellent table variety. Its extreme earliness, beautiful, pure white appearance, excellent flavor and crispness should make it a favorite everywhere. (Pkt. 10c) (oz. 20c) (¼ lb. 45c) (lb. \$1.25) (5 lbs. \$6.00) (10 lbs. \$11.00) postpaid.

Half Long Scarlet This variety should be more popular because it is just the right size for table use, not too large, never pithy, but always crisp and sweet. (Pkt. 10c) (oz. 20c) (¼ lb. 45c) (lb. \$1.25) postpaid.

Early Long Scarlet Very brittle and crisp; color a bright scarlet; small top. Six to eight inches long. (Pkt. 10c) (oz. 20c) (¼ lb. 45c) (lb. \$1.25) postpaid.

Large White Chinese This is a winter radish of deliciously sweet flavor; can be eaten as a turnip as it is without stringency. The Chinamen use this variety exclusively. (Pkt. 10c) (oz. 20c) (¼ lb. 45c) (lb. \$1.25) postpaid.

Japanese All Season It is a very large, long, snow-white radish; deeply rooted, does not extend above the soil, hence it always is tender and crisp and has a delicious flavor. (Pkt. 10c) (oz. 20c) (¼ lb. 50c) (lb. \$1.50) postpaid.

Japanese Winter A half-long white radish more adapted to our winter climate: It compares very favorably with our American varieties, besides it is much larger. (Pkt. 10c) (oz. 20c) (¼ lb. 50c) (lb. \$1.50) postpaid.

Japanese Summer Its beautiful white color and mammoth size attracts great attention. It is very tender and the flavor is exceedingly mild. It attains perfection in California, growing twenty-six inches in length and three inches in diameter. It is a profitable radish to grow, as it sells readily. It is excellent cooked as a turnip. (Pkt. 10c) (oz. 20c) (¼ lb. 50c) (lb. \$1.50) postpaid.

China Rose A delicious radish, crisp, with little tendency to become pithy. Skin is a beautiful deep scarlet and flesh pure white. It is a good seller and is in great demand by the vegetable peddlers. (Pkt. 10c) (oz. 20c) (¼ lb. 45c) (lb. \$1.25) postpaid.

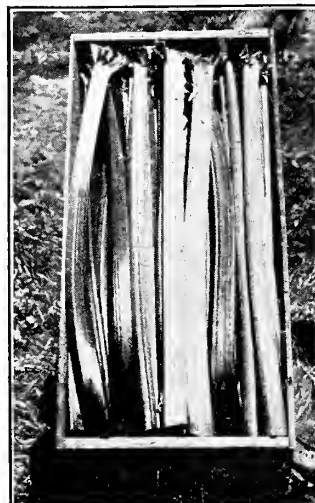
Try This

Plant the little round radishes in the same row at the same time with beets or carrots. The radishes will break the way for the beets and carrots and will be ready for pulling by the time they need the room.

Rhubarb

A & M CHERRY RHUBARB

Write for Circular



A & M Cherry Rhubarb
in boxes 24 inches long

This superb variety was first offered by us in 1925 and proved a sensation wherever grown. Shipments were made all over the country and the demand was beyond all expectation. This peerless strain is far superior to any we know. Indeed its beautiful cherry red appearance alone makes an instant appeal and in addition to this it is less tart than other sorts. There is no coarse fibre and the stems will keep in marketable condition for several weeks after maturity without becoming soft or pithy, as do most varieties. It grows to a desirable size and rarely runs to seed. Yields are prodigious, 500 40 lb. boxes per acre being the average cutting that may be expected in a warm climate. Four cuttings are usually made per year.

Roots should be planted by hand on level land, the crowns being placed one-half inch deep in heavy soils and one inch deep in sandy loam. Set 2½ feet apart in rows 5 feet apart. Moisture must be kept to surface until plants are established. In districts where frosts would retard the growth it is recommended that planting be deferred until the latter part of February but in warmer locations roots may be set out earlier. Roots 25c each, \$2.50 per doz., postpaid. Not prepaid, \$17.50 per 100. We do not offer seed of this variety.

Giant Winter

ROOTS—This variety is very early and is a very desirable sort to grow. 15c each, \$1.50 per doz., postpaid.

SEED—Sow seed of Rhubarb any time from February 1 until July 1. Transplant when the roots are as large as a pencil. Within five months of sowing, the plants will bear large stems and grow nearly the entire year. Rhubarb seed will not always produce plants true to type. (Pkt. 10c) (oz. \$1.60) (¼ lb. \$5.00) (lb. \$16.00), postpaid.

A & M Spinach

Market gardeners write for quantity prices.

Culture Sow in drills, one foot apart, and for succession, every two weeks; as it grows, thin out for use, keeping clean of weeds. It grows the year round in California. Sow one ounce of seed for 100 feet of drill, or 12 to 15 pounds to an acre. For field culture, plant level in rows 16 to 18 inches apart. This distance permits easy horse cultivation.

Spinach is best adapted to a rich, light loam and is not a satisfactory crop to grow on soils of poor quality or those which will not retain moisture. The climatic requirements of this crop are very exacting. The plants will stand without injury a relatively low degree of temperature, but are seriously injured by heat. Planting late in the spring should be avoided since the plants will not make a satisfactory growth during hot weather. When planted during the rainy season, provided the soil is of a sandy nature and is free from weeds so that it will not pack, the crop may require no cultivation. Spinach does well in some shade and can be grown between trees as well as in the open field. It is ready to harvest in six weeks to two months after planting. The yield per acre varies from three to five tons, with an average production of four tons. (As much as eight tons have been grown.)

MARKET.—On the local market there is a uniform demand throughout the year for home consumption, but during the winter months the shipper requires enormous quantities. The canners contract for large acreages each year.

A & M Special Prickly Winter

Great improvement on the ordinary Prickly Winter. The leaves are of huge size, being thick and broad and the color is a medium green. (Pkt. 10c) (¼ lb. 25c) (lb. 75c) (5 lbs. \$3.50) postpaid.

Prickly Seeded Winter This variety thrives best in the coldest weather. Our strain is the highest type possible and the seed we are offering has proven very satisfactory, especially to market gardeners, as it produces wide thick leaves of dark green color. (Pkt. 10c) (¼ lb. 20c) (lb. 60c) (5 lbs. \$2.75) postpaid.

New Zealand A spreading vine with numerous branches. One plant will cover an area four feet in diameter. Prefers a partial shady situation, where plenty of moisture is available. The tender tips may be cut every few days and cooked as spinach; it is just as good. One packet of seed is enough for a family garden. (Pkt. 10c) (oz. 20c) (¼ lb. 50c) (lb. \$1.50) (5 lbs. \$6.75) postpaid.



A & M Special Viroflay

A & M Special Viroflay

Splendid long standing variety. Produces fine large leaves, very thick and it is altogether a decided advancement in this class of Spinach. (Pkt. 10c) (¼ lb. 25c) (lb. 75c) (5 lbs. \$3.50) postpaid.

Viroflay This variety has become popular as an all-round Spinach. It is desired by the grower because it is hardier than other varieties and will produce in tonnage per acre more than any of them.

The canner and shipper like it because of its large smooth leaves.

The consumer prefers it because it is exceedingly tender and of mild flavor. (Pkt. 10c) (¼ lb. 20c) (lb. 60c) (5 lbs. \$2.75) postpaid.

A & M Summer Success For several years we have endeavored to secure a type of Spinach that would prove profitable to grow in summer time, and after several trials this one proved the greatest success. With moist, loamy or peat land the A & M Summer Success will grow leaves 14 inches long. The leaves are very meaty and crisp. (Pkt. 10c) (¼ lb. 25c) (lb. 75c) (5 lbs. \$3.50) postpaid.

Bloomsdale Large green thick crumpled leaves, grows luxuriantly, producing twelve to fifteen tons per acre. Will stand more heat than other varieties. (Pkt. 10c) (¼ lb. 20c) (lb. 60c) (5 lbs. \$2.75) postpaid.

Broad-Leaved Flanders Is one of the best varieties for all purposes, and excels others for summer planting. (Pkt. 10c) (¼ lb. 20c) (lb. 60c) (5 lbs. \$2.75) postpaid.

A & M Salsify

Culture Sow the seed in the spring in drills one foot apart and one inch deep, thinning out plants to four inches. It succeeds best in light, well-enriched soil. One ounce of seed for 56 feet of drill.

Mammoth Sandwich Island A large and superior variety. Mild and delicately flavored. (Pkt. 10c) (oz. 25c) (¼ lb. 85c) (lb. \$2.50) postpaid.

Tobacco

Acclimated Havana For quality this is the very best. (Pkt. 10c) (oz. 50c)

Pennsylvania Broad-leaf The best variety to grow in the home garden for use in the chicken house or other insecticide purpose. Also if handled properly makes a good smoking tobacco for the pipe. (Pkt. 10c) (oz. 50c)

CUTWORMS

Cutworm injury almost invariably occurs in the spring, plants usually being cut off at the surface or a little below the surface of the ground. This injury begins as soon as the first plants sprout and continues until late in June or early July when the worms have become full grown. Feeding takes place at night, the worms resting during the day beneath debris or in the soil. For best results in controlling this pest distribute Snarol over infested areas, taking care to sprinkle it around each hill. See page 85.

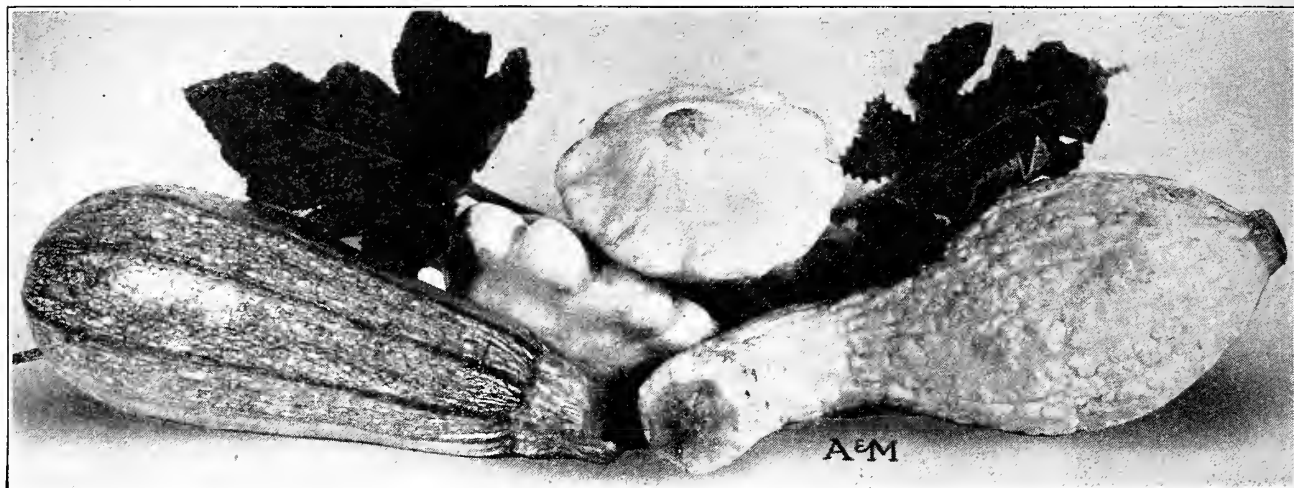


A & M Special Prickly Winter

A & M Squash

Market gardeners write for quantity prices.

Culture Seed should not be planted until all danger of frost is past. In open ground plant in hills 3 feet apart in rows 4 feet apart for summer varieties and 10 feet by 6 feet for winter varieties. In orchard plant only one row between trees. When the vine is well along do not flood the hill, but keep the irrigation furrow nearly as far from the hill as the length of the vine. Keep in mind that the roots are longer than the vines. Very early plantings may be protected with Hot Caps. Two pounds of seed plants an acre for summer varieties and 1½ pounds for winter varieties.



Zucchini

White Bush Scallop

Golden Summer Crookneck

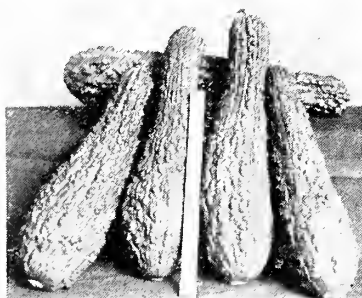
SUMMER VARIETIES

Zucchini or Italian The favorite Italian squash. It should be eaten when quite young, four to six inches long. It is a delicious summer variety; do not hesitate to plant it. It is very prolific, a few hills will suffice to keep the family well supplied the entire summer. It is now more popular on the market than the White Bush Scallop. (Pkt. 10c) (oz. 20c) (¼ lb. 60c) (lb. \$1.75) postpaid.

A & M White Bush Scallop The well known summer squash that has been the standard for more than fifty years, and always in demand because of its earliness and delicious flavor. (Pkt. 10c) (oz. 20c) (¼ lb. 40c) (lb. \$1.25) (5 lbs. \$5.75) 10 lbs. \$11.00 postpaid.

Improved Green Tint White Bush Scallop

Similar to the well-known White Bush Scallop, but selected for the darker green fruit which holds its color longer and makes it very desirable for market purposes. (Pkt. 10c) (oz. 20c) (¼ lb. 50c) (lb. \$1.50) postpaid.



Golden Yellow Straightneck

Golden Yellow Straightneck

Select type of golden summer squash with a straight neck instead of curved. For this reason is more desirable for packing in boxes for shipping. (Pkt. 10c) (oz. 20c) (¼ lb. 50c) (lb. \$1.50) postpaid.

Golden Summer Crookneck The popular well known Crookneck (Pkt. 10c) (oz. 20c) (¼ lb. 50c) (lb. \$1.50) postpaid.

Cocozelle Differs from Zucchini in that it is marked with heavy dark green stripe. Equal to the White Bush Scallop for the table when taken quite young. It is enormously prolific. When gathered closely the vines will keep bearing continuously all summer, and far into the fall. It survives drouth to a wonderful degree. (Pkt. 10c) (oz. 20c) (¼ lb. 60c) (lb. \$1.75) postpaid.

Long White Marrow This is exceedingly delicious as well as the most prolific of all English Marrows. Steamed when quite young or ired as egg plant it is equal to egg plant itself. The squash is about 12 inches long when mature, and has a light creamy color. It grows luxuriantly and bears abundantly all summer under very adverse conditions. It will grow, when continuously harvested, more food for hogs than pumpkins. (Pkt. 10c) (oz. 20c) (¼ lb. 60c) (lb. \$1.75) postpaid.

WINTER VARIETIES

A & M Banana This squash grows from one to two feet in length. Flesh firm and solid of beautiful orange-yellow and excellent quality. It keeps from one season until another. When quite young it is excellent to cook as a marrow. (Pkt. 10c) (oz. 20c) (¼ lb. 50c) (lb. \$1.50) (5 lbs. \$7.00) (10 lbs. \$13.00) postpaid.

Green Wartyed Hubbard This variety is grown the United States than any other. It is used in many ways, but mostly for pies. It is a good keeper and because of its hard warty rind, it is the best of shippers. Therefore many acres are grown in Southern California for that purpose, and many more for the bakers, the canners and family consumption. (Pkt. 10c) (oz. 20c) (¼ lb. 50c) (lb. \$1.50) (5 lbs. \$7.00) (10 lbs. \$13.00) postpaid.

Golden Hubbard The flesh is of a deep golden yellow—a much richer color than the Green Hubbard—fine grained, cooks very dry, and has excellent flavor. (Pkt. 10c) (oz. 20c) (¼ lb. 65c) (lb. \$2.00) postpaid.

English Cream Marrow or Fordhook Squash

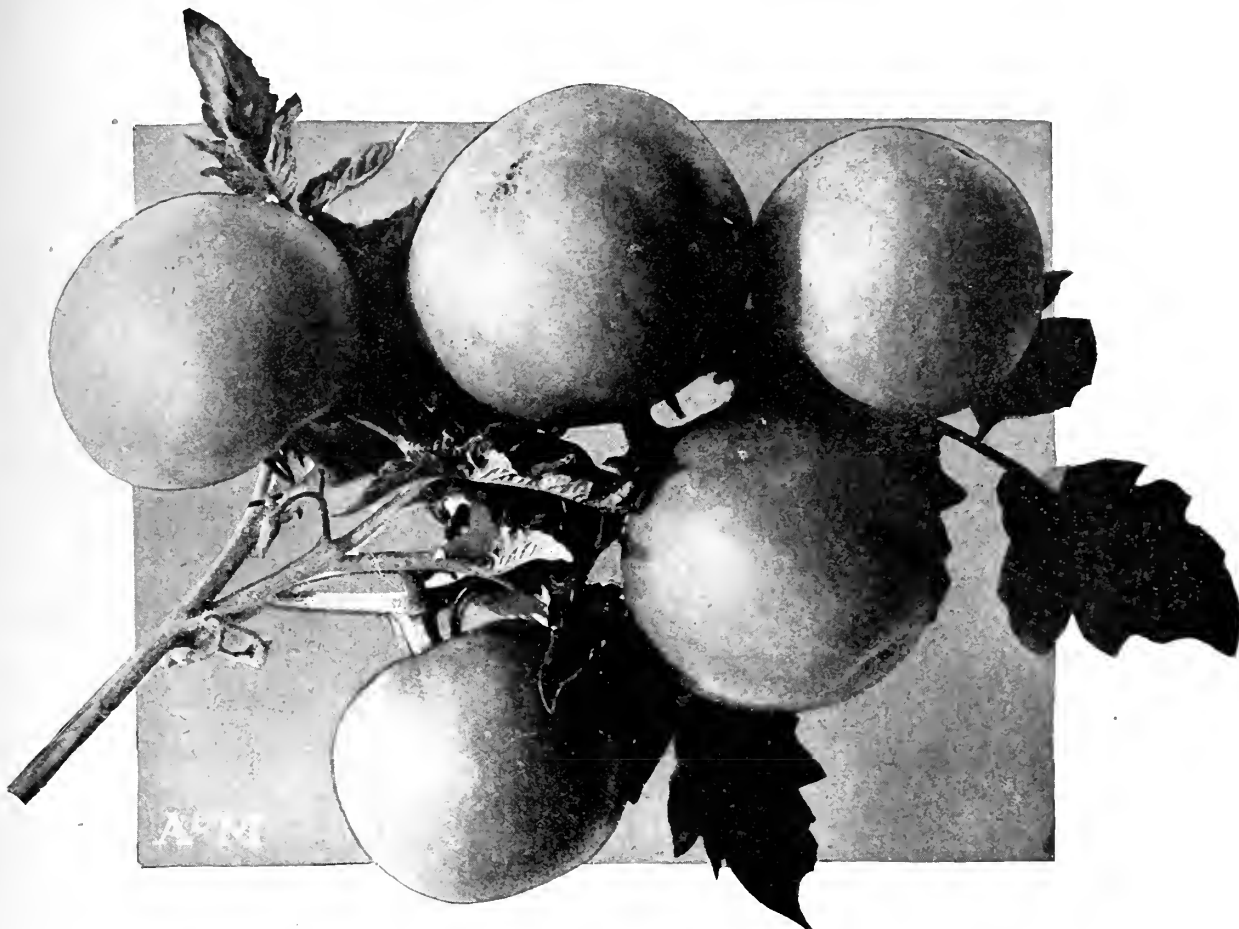
This is a most desirable squash for either summer or winter use. Oblong in form, eight or ten inches in length. If gathered young for cooking it is excellent, while if allowed to ripen on the vine they can be stored and will keep in good condition until late the following June. (Pkt. 10c) (oz. 20c) (¼ lb. 60c) (lb. \$1.75) postpaid.

Kitchenette A small Hubbard Squash reduced in size to about 5 pounds, just right for the average family. One half of a large Hubbard is usually wasted. The Kitchenette is a good seller for the vegetable vender. (Pkt. 10c) (oz. 25c) (¼ lb. 75c) (lb. \$2.00) postpaid.



Green Wartyed Hubbard

A & M Tomatoes



A & M Marglobe

Culture Tomatoes do best on light warm, not over-rich soil, and success depends upon securing a rapid, vigorous and unchecked growth during the early part of the season. Sow in hot-beds from 6 to 8 weeks before they can be set out of doors, which is when danger from frost is past. Use 2 ounces of seed per acre.

Transplant three to six feet apart in rows four to six feet apart, according to variety—three feet for those varieties of upright growth, and six feet is not too far apart for vining varieties which soon cover the ground solidly. The soil should be plowed and pulverized to a depth of ten or twelve inches, the deeper the better, in order that the roots may keep in the cool earth, for as soon as the roots are heated by the hot, dry soil near the surface, the plant quickly sickens and dies, and the grower can see no cause for it.

Many growers are now treating seed with Semesan before sowing. This helps to control diseases and develops sturdier plants.

Root blight may very often be prevented by spraying frequently with Bordeaux Mixture, beginning when the plants are young and continuing throughout the season. A cup full of the liquid Bordo poured around the stem of the plant where it will soak down to the root system is also effective. It is also a good plan to dip the roots in a solution of Bordeaux Mixture when transplanting. Blight may often be prevented, but it is difficult to cure.

The time of planting and variety depend upon your local market, soil and climatic conditions, and the purpose for which they are grown.

A & M MARGLOBE TOMATO

A wonderful variety thoroughly recommended for any soil or climatic conditions adaptable to tomato growing. It is a hybrid from Marvel, a government strain; the flesh is red and the very thin outer skin is golden. The red flesh showing through the golden skin produces a rich red color with a tinge of gold showing through. The meat is solid with very few seeds, non-acid, almost a globe shape, size is medium, averaging 7 to 9 ounces in weight, a good shipper, excellent for local market and will probably become one of the leading canning varieties. We have every reason to believe that it is resistant to Fusarium Wilt and Nailhead Rust, and this is one of the greatest things in its favor.

(Pkt. 15c) (oz. 75c) (¼ lb. \$2.50) (lb. \$7.50) postpaid.

A & M First Early We introduced this tomato in 1909 and from that time to the present it has superceded many early varieties throughout Southern California and Mexico and is constantly gaining favor among the important tomato growers in big producing sections, such as Imperial Valley, Salt River Valley of Arizona and other similar districts. As an early variety and money maker it has

no equal among tomato varieties. It is uniform in size and packs well, making it a most desirable tomato for the packer and shipper. It is smooth, inclined to globe shape, of good size, an excellent shipper and bears longer than any other early tomato. We cannot recommend it too highly. (Pkt. 10c) (oz. 50c) (¼ lb. \$1.75) (lb. \$5.00) postpaid.

A & M Globe This variety has become very popular with the large growers in old Mexico. They have learned that when it has turned from the green to a lighter color with just a suspicion of red it is in prime condition to ship to the farthest market with the least deterioration. It is nearly as round as a globe, produces abundantly and is a delightful table variety, almost without acidity, and is now considered the best shipper for the farthest market. (Pkt. 10c) (oz. 75c) (¼ lb. \$2.50) (lb. \$7.50) postpaid

King of the Earlies This variety has become very popular for early planting in Coachella and Imperial Valleys for the reason that every blossom produces a tomato, that it matures very early, is smooth, is of fair size, is of good flavor and is a good shipper. (Pkt. 10c) (oz. 50c) (¼ lb. \$1.75) (lb. \$5.00) prepaid.

A & M Tomatoes—Continued

A & M Improved Stone This is the most popular tomato in Southern California. Several thousand acres are planted to this variety exclusively for shipping to Eastern points after other tomatoes have been destroyed by frost. For this purpose the seed is planted about June 15th, and the tomato brought to full size about October 1st, after which it gradually ripens as wanted for shipping. The tomato is of good size, bright red, solid, smooth, and enormously productive.

The canners prefer it because of its uniformly desirable size and solidity for canning. The grower prefers it because of the vigorous growth and large production extending throughout the season far into the winter months. (Pkt. 10c) (oz. 50c) (¼ lb. \$1.75) (lb. \$5.00) postpaid.

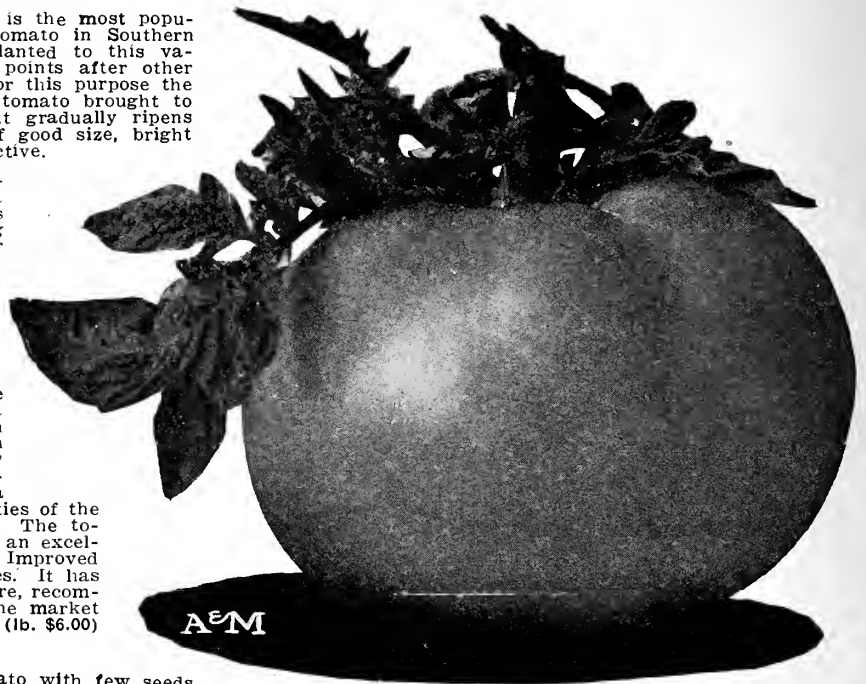
A & M WILT RESISTANT STONE

This Tomato has proven less susceptible to damage by wilt than any other variety. It has been grown in fields adjoining which were tomatoes that were badly infested with wilt, that made no crop and were finally plowed under, while the A & M WILT RESISTANT grew an excellent crop and was a money maker. It retains all the good qualities of the Stone and has others we feel even better. The tomato is of good size, very solid and makes an excellent shipper. It yields as heavy as the Improved Stone, making it ideal for canning purposes. It has proven its value in Mexico. We can, therefore, recommend it for the canner, the shipper and the market gardener. (Pkt. 10c) (oz. 60c) (¼ lb. \$2.00) (lb. \$6.00) postpaid.

Ponderosa A very large, purple tomato with few seeds and of excellent flavor. Our strain is round and smooth—not the usual oblong wrinkled kind. Favorite for the home garden. (Pkt. 10c) (oz. 70c) (¼ lb. \$2.35) (lb. \$7.00) postpaid.

Golden Ponderosa A very large yellow tomato having a delicious flavor. It is ideal for salads and with a little finely sliced lemon makes excellent preserves. It yields enormously. We recommend it for the home garden. (Pkt. 10c) (oz. 75c) (¼ lb. \$2.50) (lb. \$7.50) postpaid.

Earliana The plants are quite hardy, with rather slender branches and moderate growth, well set with fruits, nearly all of which ripen very early in the season. The tomatoes are bright red and close together in clusters of five to eight; all of medium size, averaging 2½ inches in diameter. (Pkt. 10c) (oz. 50c) (¼ lb. \$1.65) (lb. \$5.00) postpaid.



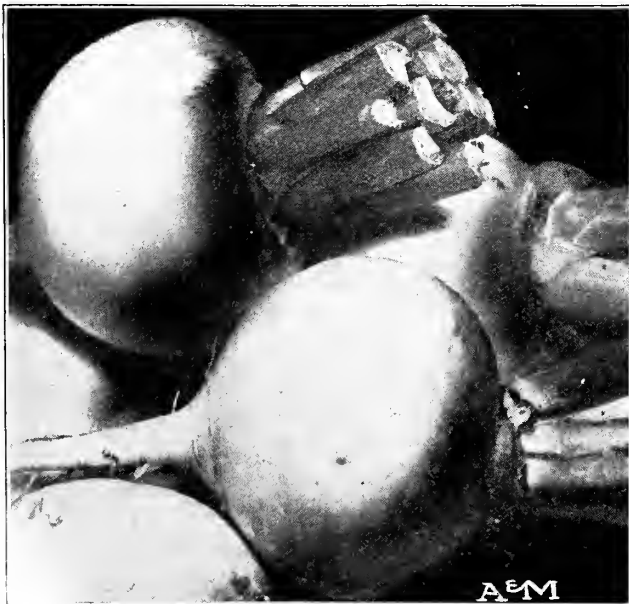
A & M Improved Stone

Chalk's Early Jewel Excellent early tomato for home or nearby market; very prolific, red, smooth and desirable size. Its mild flavor makes it desirable as a salad. (Pkt. 10c) (oz. 40c) (¼ lb. \$1.35) (lb. \$4.00) postpaid.

San Jose Canner This variety is a favorite with canners for the sole reason of its enormous yield of large tomatoes regardless of shape. We recommend it where tonnage is desired above all else. (Pkt. 10c) (oz. 75c) (¼ lb. \$2.50) (lb. \$7.50) postpaid.

Dwarf Stone (Tree Tomato)—Large, red, smooth and solid. The stalk is upright with dense foliage protecting the fruit from the heat of the sun. It is a desirable tomato to grow in the interior valleys. (Pkt. 10c) (oz. 50c) (¼ lb. \$1.65) (lb. \$5.00) postpaid.

A & M Turnips



Purple Top Globe

Culture—Turnips may be sown broadcast on damp sandy soil or in drills as beets and carrots. Drill in double rows on ridges not too thick in the row. The Purple Top Globe variety is now leading in popularity because of its mild flavor and its adaptability to our summer climate.

Purple Top Globe Solid, very sweet, slow to get pithy. The very best variety for the summer season. Indeed the best for any season, but slower to mature than the Strap-Leaf. (Pkt. 10c) (oz. 20c) (¼ lb. 35c) (lb. 80c) postpaid.

Snowball Next to the Purple-Top Globe in popularity, but preferred by many because of its beauty and excellent flavor. It is slow to get pithy in the summer, but always crisp during the winter. (Pkt. 10c) (oz. 20c) (¼ lb. 35c) (lb. \$1.00) postpaid.

Early Purple Top Strap-Leaf A very popular variety for either family or market use; large size, white, purple above ground; table variety. (Pkt. 10c) (oz. 20c) (¼ lb. 30c) (lb. 75c) postpaid.

Golden Ball A rapid grower of excellent flavor; bright yellow color; good keeper and a superior table variety. (Pkt. 10c) (oz. 20c) (¼ lb. 35c) (lb. \$1.00) postpaid.

Early White Flat Dutch An early white-fleshed strap-leaved variety; for quick growth, mild flavor and excellent quality. (Pkt. 10c) (oz. 20c) (¼ lb. 30c) (lb. 75c) postpaid.

Purple-Top Rutabaga The best of the Swede Turnips. Very hardy and productive; flesh yellow, is very solid, sweet and well flavored. (Pkt. 10c) (oz. 20c) (¼ lb. 30c) (lb. 75c) postpaid.

A & M LAWN SEEDS

For Private Lawns, Country Clubs, Golf Links and Public Parks.

The lawn is the finishing touch of the home and once planted it remains indefinitely, therefore, it is important that the proper selection of seed be made in the beginning and thus avoid disappointment. Pure seed of good germination is important and freedom from weed seed is necessary for best results. A & M lawn seeds and mixtures are cleaned thoroughly and are tested for purity and germination. When you plant A & M Lawn Grass Seed you are planting the best that the market affords. Write for Lawn Circular No. 18.



A & M VELVET LAWN GRASS

Has been used for many years throughout the Southwest with highly satisfactory results. It is a blending of grasses best suited to the variation of temperatures to which the lawn is subjected during the twelve months period. It contains the proper proportion of the best, fine bladed grasses and white clover and when properly planted and cared for will produce a beautiful turf of bright, velvety green color. If you are having your lawn planted by a landscape gardener, insist that he use A & M VELVET LAWN GRASS. It is packed in 1 lb. cartons and in specially branded bags of 5 and 10 lbs. each. It requires 1 lb. of A & M Velvet Lawn Grass Seed to plant a space 10x20 or 200 square feet. This is the least that should be used and a heavier seeding will give quicker results. (1-lb. carton 60c) (5-lb. bag \$2.80) (10-lb. bag \$5.40). Postpaid.

A & M SHADY LAWN GRASS

In planting the lawn, there are often many places under trees or on the north side of the house and it is quite difficult to obtain satisfactory growth of grass in these shaded places. A & M SHADY LAWN GRASS will grow satisfactory in the shade and will blend in with the other lawn grass. It is a special mixture of fine bladed grasses and will produce an abundant and even growth of beautiful green grass. A & M Shady Lawn Grass may also be used in parks or other places where there is considerable shade from trees. (1 lb. 60c) (5 lbs. \$2.80) (10 lbs. \$5.40) postpaid.

A & M KENTUCKY BLUE GRASS

Every bag of our Kentucky Blue Grass Seed is tested for purity and germination. There is positively no guess work about it. You know when you buy A & M KENTUCKY BLUE GRASS SEED that it is high grade in every respect. (1 lb. 50c) (10 lbs. \$4.50) postpaid. Write for quantity prices.

A & M WHITE CLOVER

There are many grades of White Clover Seed and A & M is always the best one. We invite comparison of samples, for when they are examined side by side it is very easy to note the difference in quality. A & M White Clover is tested for purity and germination the same as our Kentucky Blue Grass. It may be used to good advantage in reseeding Bermuda Grass Lawns in the fall of the year. (1 lb. 80c) (10 lbs. \$7.50) postpaid. Write for quantity prices.

ASTORIA BENT GRASS

The conditions under which this strain of bent grass seed is grown and produced renders it more favorable to our particular climate than many other varieties. (1 lb. \$1.80) postpaid.

SEASIDE BENT GRASS

This strain of bent grass is the most popular for golf greens and has been used for many years for this purpose on the foremost courses. Write for cultural directions. (1 lb. \$2.00) postpaid.

AUSTRALIAN RYE GRASS—(lb. 30c) (10 lbs. \$2.50) postpaid.
PACEY'S RYE GRASS—(lb. 35c) (10 lbs. \$3.00) postpaid.
RED TOP—(lb. 45c) (10 lbs. \$4.00) postpaid.
POA TRIVIALIS—(lb. 60c) (10 lbs. \$5.50) postpaid.
CHEWINGS FESCUE—(lb. 65c) (10 lbs. \$6.00) postpaid.

A & M VELVET PLANT FOOD

Used Everywhere With Best Results

Every California gardener should fully realize the necessity for fertilizing. Most growers are inclined to use too small an amount of fertilizer and particularly since it is somewhat difficult to secure barnyard fertilizer, there is too often a tendency to forget the matter entirely. This is a mistake and will often cause disappointment, not only in the lawn, but in the garden as well. A & M VELVET PLANT FOOD will give you very satisfactory results and for the new lawn it should be used at the rate of about 100 lbs. to 1,500 square feet and should be raked in before planting. This should be done several days in advance of seeding. For an established lawn broadcast evenly at the rate of 4 to 6 lbs. per 100 sq. ft. and water thoroughly immediately after applying. For roses, use about ½ to 1 lb. per bush, depending upon the size of the bush; for trees and shrubs use a larger quantity. It will be found beneficial to all plant life and the results are quick and lasting. It is odorless and well balanced for general purposes. (25 lb. sack \$1.10) (50 lbs. \$2.00) (100 lbs. \$3.75). F. O. B. Los Angeles.

Classification of Flower Seeds for Special Purposes

This page is intended to aid you in the selection of your seeds that you may have flowers all the year round, and for every purpose.

FLOWERING ANNUALS, ALSO SOME PERENNIALS WHICH FLOWER FIRST SEASON FROM SEED

Varieties Marked * Are Best for Beds and Masses

Abronia	*Chrysanthemum	Ice Plant	*Pansy
Acroclinium	(Annual)	Kochia	*Petunia
*African Daisy	*Cineraria	*Larkspur	*Phlox
*Ageratum	Clarkia	Lavatera	*Poppy
*Alyssum	Cosmos	Leptosyne	*Portulaca
*Antirrhinum	Dahlia	*Linum	Rhodanthe
Arctotis	Datura	Lobelia	Rudbeckia
*Asters	*Dianthus	Lupinus	Salpiglossis
Balsam	*Dimorphothea	*Marigold	*Salvia
*Bartonia	*Eschscholtzia	Matricaria	Scabiosa
Bellis	Four O'Clock	Matthiola	Schizanthus
Brachycome	*Gaillardia	Mimulus	*Silene
Cacalia	*Godetia	Mirabilis	Stevia
*Calendula	Gomphrena	Myosotis	*Stocks
*Calliopsis	Gypsophila	*Nasturtium	Sunflower
*Candytuft	Helianthus	Nemesia	Sweet Peas
Carnation	Helichrysum	Nemophila	*Verbena
*Celosia	Hollyhock	Nicotiana	Vinca Rosea
Centaurea	(Annual)	Nigella	*Viola Cornuta
	Hunnemannia	Oenothera	Wallflower
			(Annual)
			*Zinnia

FLOWERING PERENNIALS

For Permanent Beds and Borders, Many Flowering the First Season

Achillea	Daisy	Lantana	Ricinus
Agatheia	Dahlia	Lupinus	Romneya
Anchusa	Delphinium	Mimulus	Salvia
Aconitum	Dianthus	Myosotis	Scabiosa
Aquilegia	Digitalis	Pansy	Shasta Daisy
Begonia	(Foxglove)	Pentstemon	Statice
Bellis	For-Get-Me-Not	Perennial Aster	Stevia
Bidens	Freesia	Petunia	Stocks
Canterbury	Gaillardia	Phlox	Snapdragon
Bells	Geranium	Physostegia	Sweet William
Campanula	Gerbera	Polemonium	Valeriana
Canna	Geum	Poppy	Verbena
Carnation	Gypsophila	Potentilla	Vinca
Centaurea	Heliotrope	Primula	Viola
Candidissima	Hollyhock	Pyrethrum	Wallflower
Coreopsis	Hunnemannia		

FOR SHADY PLACES

Anemone	Bellis	Scarlet Flax	Pansy
Antirrhinum	Daisy	Foxglove	Primula
Aquilegia	Clarkia	Godetia	Viola
Begonia	Cineraria	Mimulus	Violets
(Tuberous)	Cyclamen	Myosotis	Ferns
	Delphinium	Oenothera	

FOR CUT FLOWERS

Acroclinium	Calliopsis	Gerbera	Pyrethrum
Antirrhinum	Celosia	Gypsophila	Salpiglossis
Aquilegia	Centaurea	Hunnemannia	Salvia
Asters	Chrysanthemum	Larkspur	Scabiosa
Candytuft	Coreopsis	Leptosyne	Schizanthus
Carnation	Cosmos	Lupinus	Statice
Arctotis	Dahlia	Marigold	Stevia
Bartonia	Daisies	Matricaria	Stocks
Brachycome	Delphinium	Mignonette	Sunflower
Calendula	Dianthus	Pentstemon	Sweet Peas
	Gaillardia	Poppies	Zinnias

ORNAMENTAL AND FOLIAGE PLANTS

Amaranthus	Centaurea	Coleus	Pyrethrum
Canna	Candidissima	Kochia	Ricinus
	Cerastium		Stachys

FRAGRANT FLOWERS

Alyssum	Mignonette
Carnation	Nicotiana Affinis
Clematis Paniculata	Stocks
Dianthus	Sweet Peas
Freesias	Sweet William
Heliotrope	Violet
Mathiola	Wallflower

EVERLASTING FLOWERS

Ammobium	Helichrysum
Acroclinium	Ornamental Grasses
Gomphrena	Rhodanthe
(Globe Amaranth)	Statice
Gypsophila	Xeranthemum
Paniculata	

FOR HANGING BASKETS, WINDOW BOXES, etc.

Drooping	Upright
Alyssum	Coleus
Asparagus Sprengeri	Geranium
Kenilworth Ivy	Pansy
Lobelia	Viola
Nasturtium	Begonia
Petunia	Ageratum
Smilax	Primulas
Thunbergia	Candytuft
	Nemesia

FOR EDGING AND BORDERS

Ageratum	Lobelia
Alyssum	Marigold (Dwarf)
Asters (Dwarf)	Myosotis
Begonia	Nasturtium
Bellis	Nemophila
Candytuft	Pansy
Centaurea	Phlox Drummondii
Candidissima	Petuna Nana Erecta
Coleus	Pyrethrum
Dianthus	Golden Feather
Dimorphothea	Shasta Daisy
Gomphrena	Sweet Peas Cupid
Kochia	Viola
	Zinnia (Dwarf)

CLIMBING VINES

Annual	Perennial
Balloon Vine	Ampelopsis
Balsam Apple	Antigonon (Bulbs)
Canary Bird Vine	Asparagus
Cardinal Climber	Australian Pea Vine
Convolvulus	Clematis
Cypress Vine	Coboea Scandens
Japanese Hop	Ipomoea
Hyacinth Bean	Lathyrus
Ipomoea	Moon Vine
Japanese Morning Glory	Mina Lobata
Mina Lobata	Phaseolus
Nasturtium	Smilax
Scarlet Runner	Wisteria
Sweet Peas	Cinnamon Vine (Bulbs)
Thunbergia	
Wild Cucumber	

ROCK GARDEN PLANTS—See Page 59

SOUTHERN CALIFORNIA GARDENING

By Edna Betts Trask

A Book for Amateurs, written in simple language, giving explicit directions for planting in Southern California. Publisher's price \$1.25 post-paid.

A & M PLANTING CALENDAR—See inside back cover.

A & M SELECT CALIFORNIA FLOWER SEEDS

SUPREME IN ALL CLIMES



It is now quite generally known that California is the largest flower seed producing section in North America and that thousands of acres of California land are producing flower seeds to be shipped to all parts of the world. Being in the midst of this production, where we enjoy the privilege of frequent inspections of our own growing crops as well as those of other growers, we have a decided advantage in flower seed selection that enables us to offer our customers the very finest strains of all varieties. A & M California Flower Seeds may be planted in any climate with gratifying results. For the home gardener or the commercial grower they are unexcelled.

ABRONIA (Sand Verbena)

A hardy annual, trailing in habit, about nine inches high, bearing verbenalike clusters of flowers, which are very fragrant. A native of California. Thrives in dry situations, and is valuable for rock work or hanging baskets. *Umbellata*—Rosy lilac. Pkt. 10c.

ABUTILON

Maximum Giant Flowered Mixed (Flowering Maple) — Perennial. Seeds grow readily if started in February or March and will bloom in fall. Various shades of pink and red. 3 ft. tall. Pkt. 25c.

ACHILLEA

The Pearl — Hardy perennial, producing throughout the summer an abundance of small white flowers. Will bloom first year from early sowings. Excellent cut flower and bouquet filler. Height 2 feet. Pkt. 25c.

ACONITUM

Monk's Hood

Napellus — Hardy perennial, easily grown and producing long spikes of blue and white flowers. May be planted in partial shade. The seed is slow to germinate. Sow in flats in the spring and transplant. Height 3 to 5 feet. Pkt. 15c.

ACROCLINIUM

Hardy annual everlasting flowers, white and self pink with golden centers. Should be cut the first day they open.
Double Rosea—Bright pink. Pkt. 10c.
Double Mixed—Pink and white. Pkt. 10c.

AGATHEA

Sometimes referred to as the Blue Marguerite. Plants dwarf and compact, covered throughout a long season with myriads of small Blue Marguerite-like flowers. These are splendid for cutting purposes. Pkt. 10c.

ADONIS

Aestivalis (Pheasant Eye)—Annual. 12 inches. Flowers crimson. Slow germinating and should be sown in fall or early spring. Does best in light soil and in full sun or partial shade. Pkt. 10c.

Autumnalis—Annual. Red flowers with dark center. 12-18 inches. Pkt. 10c.

Vernalis — Yellow perennial 12 inches tall. Fine for rock work or borders. Pkt. 10c.

AGROSTEMMA

Coeli-rosa (Rose of Heaven) — Beautiful annual of easy culture. Very floriferous—flowers a reddish rose. Thrives in full sun. 12-18 inches tall. Pkt. 10c.

Coronaria (Rose Campion) — Perennial. 2½ feet tall. Produces bright crimson flowers with silvery white foliage. Excellent for cutting. Pkt. 10c.



Achillea

ALONSOA

Linifolia—Graceful plant bearing scarlet flowers. Annual, 1½ feet. Pkt. 10c.

Warscewiczii—Annual; 1-2 feet. Racemes of brilliant tomato red. Pkt. 10c.

ALYSSUM

A fragrant hardy annual having the odor of honey and bearing spikes of small white flowers in great profusion throughout the winter, spring and summer. Without a doubt the best white border plant, is also useful for beds and baskets and will begin to bloom when quite small.

Carpet of Snow—Very compact, growing about three inches high, one plant often having a diameter of 15 inches. Pkt. 10c. ¼ oz. 25c.

Little Gem—Grows 4 to 6 inches high. One of the finest for low beds and borders. Pkt. 10c. ¼ oz. 25c.

Sweet White—The tallest of this group, growing 8 to 12 inches. A profuse bloomer. Pkt. 10c. oz. 30c.

Lilac Queen—A delicate lilac (dwarf). Pkt. 10c. ¼ oz. 25c.

Saxatile Yellow—A perennial variety of pleasing yellow color. Height 1 ft. Pkt. 10c. ¼ oz. 25c.

AMARANTHUS

Hardy annuals, grown especially for their brilliant foliage.

Caudatus (Love Lies Bleeding)—Light yellowish-green foliage; long, drooping crimson flower spikes. Plants grow three feet high. Pkt. 10c. oz. 30c.

Salicifolius or Willow-leaved—This variety is like the above except that the foliage is fine, giving a drooping, graceful effect. Pkt. 10c. ¼ oz. 35c.

Tricolor (Joseph's Coat)—The leaves of this variety are green, red and yellow. Pkt. 10c. ¼ oz. 25c.

Molten Fire—Very attractive, the top leaves being bright crimson and the lower maroon. Pkt. 10c.

AQUILEGIA (Columbine)

A hardy perennial of graceful habit growing about two feet high. The flowers are attractive and beautifully adapted for cut flowers. They may be successfully grown in partial shade. Fall sown seed will bloom the following spring. If sown in early spring will often flower the same season. Time required for seed to germinate is 12 to 60 days. Sow seeds in flats and transplant.

Long Spurred Blue Shades—Large flowers in most charming colors of blue. Pkt. 20c.

Long Spurred Pink Shades—Containing a variety of pink to rose shades. Pkt. 20c.

Long Spurred Orange and Scarlet Shades—Very striking. Pkt. 20c.

Collection 7F—One packet each of above, three separate colors, 45c.

Long Spurred Hybrids, Mixed—This is the Elliott strain, conceded to be the finest grown. Colors are mixed, stems extra long, fine for cutting. Pkt. 25c, 1/8 oz. \$1.00.

AGERATUM (Floss Flower)

A hardy annual of easy culture, especially valuable for bedding, as it is literally covered with blossoms all summer. Sow the seed early in the spring, either in boxes to transplant, or out of doors, and thin to four to six inches.

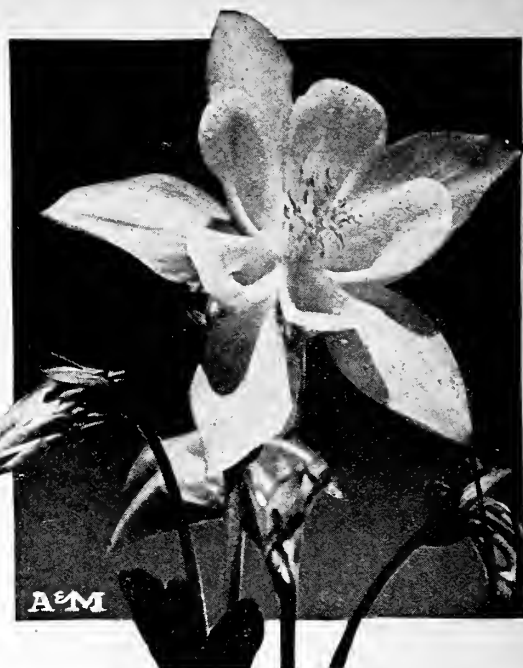
Blue Perfection—Deep blue, one foot high. Pkt. 10c, 1/4 oz. 25c.

Nanum Blue Star—Extra dwarf (4 in.). Many small blue flowers. Fine for edging. Pkt. 25c.

Purple Perfection—Deeper than Blue Perfection. Pkt. 15c.

Little Dorrit Azure Blue—6 in. Pkt. 15c.

Little Dorrit White—6 in. Pkt. 15c.



Aquilegia, Long Spurred Hybrids

AMPELOPSIS

Quinquefolia (Virginia Creeper)—A very popular climber. Hardy perennial. Seed may be sown any time of the year. During the summer the foliage is green, changing to various shades of bronzy red during the fall. Pkt. 10c.

Veitchi (Boston Ivy)—A valuable perennial climber which grows rapidly, clinging to brick and wood. The leaves are deep green, changing to scarlet in the fall. Pkt. 10c.

ANAGALIS

Very desirable annual for edging and rock gardens. 6-12 inches.

Grandiflora Blue—Flowers dark blue with purple center. Pkt. 10c.

Grandiflora Mixed—Very effective in borders and rock gardens. Pkt. 10c.

Your seeds are the best I can get anywhere and I am always pleased with the results. My neighbors are always so envious of my flowers.—Mrs. E. M. AUSTIN, Exeter.



Ageratum

ANCHUSA ITALICA

Dropmore Variety—One of the best hardy perennials, growing 3 to 5 ft. high, and having long loose sprays of lovely forget-me-not-like flowers of a rich gentian blue. Is very free flowering, blooming over a long season. Pkt. 10c.

Blue Bird—Vivid indigo blue. Annual. 2 feet. Pkt. 25c.

ARCTOTIS GRANDIS

Lilac African Daisy—Large pearly white Marguerite-like flower, with delicate mauve center surrounded by a narrow golden band. The whole plant is covered with white down. Half hardy annual. Height 2 ft. Pkt. 10c, 1/4 oz. 25c.

Mixed, Pkt. 10c, 1/4 oz. 25c.



Arctotis Grandis

ANEMONE (Windflower)

Giant French Single Mixed—This lovely flower may be grown from seeds as well as bulbs. Our seed has been saved from an extra fine strain and contains a very choice mixture of colors. The seed may be sown in the fall or spring in seed bed or flats. We suggest that the seed be covered lightly with sand, then spread a thin cloth over the bed and water through this. The plants form bulbs which should be given the culture as recommended in our bulb catalog. Pkt. 25c.

ANTHEMIS

Kelwayi Yellow (Marguerite)—Fine cut foliage and deep yellow flowers. An excellent hardy perennial border plant and valuable for cutting. Needs full sun; 3 feet. Pkt. 10c, 1/2 oz. 30c.

Kelwayi White. Pkt. 10c.

ARABIS (Rock Cress)

Alpina—6-12 in. Hardy perennial requiring sun and poor soil. Excellent rock garden and border plant. Myriads of fine white flowers. Pkt. 10c.

ARMERIA

Formosa Hybrid—Fine plant for permanent border or rock garden and does well on the sea coast. Flowers range from rose to red. Height about 9 inches. Pkt. 10c.

ASCLEPIAS

Tuberosa (Butterfly Weed or Pleurisy Root)—Perennial producing brilliant orange flowers. 2-3 feet high. Pkt. 15c.

ASPARAGUS FERN

Plumosus—A tender perennial for green-house or potted plant use, with long, fine, feathery foliage. The sprays when cut, retain their freshness in water from three to four weeks. Seeds start slowly and should be soaked in water before sowing. Pkt. 10c. 100 seeds 50c.

Sprengeri—A hardy variety. Used as a pot plant. Suitable in groups of potted flowers or in hanging baskets. Pkt. 10c. 100 seeds 45c.

We have grown your Zinnia seed for several years, and think them beautiful.—A. C., Gladiolus Specialist, Berlin, New York.

A & M SNAPDRAGONS (Antirrhinum)

A & M California Snapdragons are the finest strain obtainable. Our fields of these are most beautiful at blooming time and are much admired by all who see them.

Snapdragons are easily grown from seed and may be sown in flats or open ground from August to January in Southern California. They may be had in a great variety of separate colors or the mixed may be planted for a brilliant array of color.

Tall Maximum

Improvement in these favorite flowers that hark to the days of long ago has really been phenomenal. Retaining the merit of their original form, they have received at the hands of the hybridizers a complete glorification. They are now larger, better and more colorful. Height 4 feet. Greatly in demand for cut flowers.

Apple Blossom—Rosy pink, yellow lip	Pkt. 25c
Canary Bird—Canary yellow, golden center	Pkt. 25c
Cattleya—Rosy lilac	Pkt. 25c
Chamois—Pink and tan	Pkt. 25c
Copper King—Copper scarlet.	Pkt. 25c
Golden Queen—Deep yellow	Pkt. 25c
Indian Summer—Velvety copper.	Pkt. 25c
Jennie Schneider—Rose pink	Pkt. 25c
Old Gold—Deep golden yellow	Pkt. 25c
Purple King—Maroon red	Pkt. 25c
Rock's White—Finest White	Pkt. 25c
Snowflake—White, yellow tube.	Pkt. 25c
The Rose—Rose pink.	Pkt. 25c
Wallflower—Brownish orange	Pkt. 25c
The above separate colors	1/8 oz. 65c
Finest Mixed	Pkt. 25c, 1/8 oz. 50c
Collection 28F—One packet each of six separate colors, \$1.00.	

Tall Large Flowering

This type grows about 3 feet tall, the flowers are large and the flower spikes long. Splendid for cutting and tall borders.

Rose Queen—A delicate silver pink.....	Pkt. 10c
Coral Rose—Deep coral	Pkt. 10c
Garnet (Othello)—A velvety, deep red.....	Pkt. 10c
Defiance Scarlet—A velvety bright red.....	Pkt. 10c
Golden King—Golden yellow	Pkt. 10c
Orange Shaded Scarlet	Pkt. 10c
White (Queen Victoria)—Pure white	Pkt. 10c
The above separate colors	1/4 oz. 40c
A & M Rose King—Deep rose.	Pkt. 15c
Mixed	Pkt. 10c; 1/4 oz. 25c

Semi-Dwarf Large Flowering

The best for bedding and because of the large flowered compact spike is considered fine for cutting. Height about 18 in.

Amber Queen—Amber	Pkt. 15c
Carmine Queen—Brilliant carmine	Pkt. 15c
Climax—Orange shaded scarlet	Pkt. 15c
Defiance—Scarlet	Pkt. 15c
Empress—Deep crimson	Pkt. 15c
Gloria—Deep rose pink	Pkt. 15c
Golden Yellow—Deep yellow	Pkt. 15c
Pink Perfection—Pink suffused salmon.....	Pkt. 15c
Prima Donna—Shrimp pink, yellow throat.....	Pkt. 15c
Purity—Pure white	Pkt. 15c
Rosy Lavender	Pkt. 15c
Silver Pink—Delicate pink	Pkt. 15c
The above separate colors.....	1/4 oz. 65c
Semi Dwarf Mixed	Pkt. 10c, 1/4 oz. 35c

AUBRIETIA

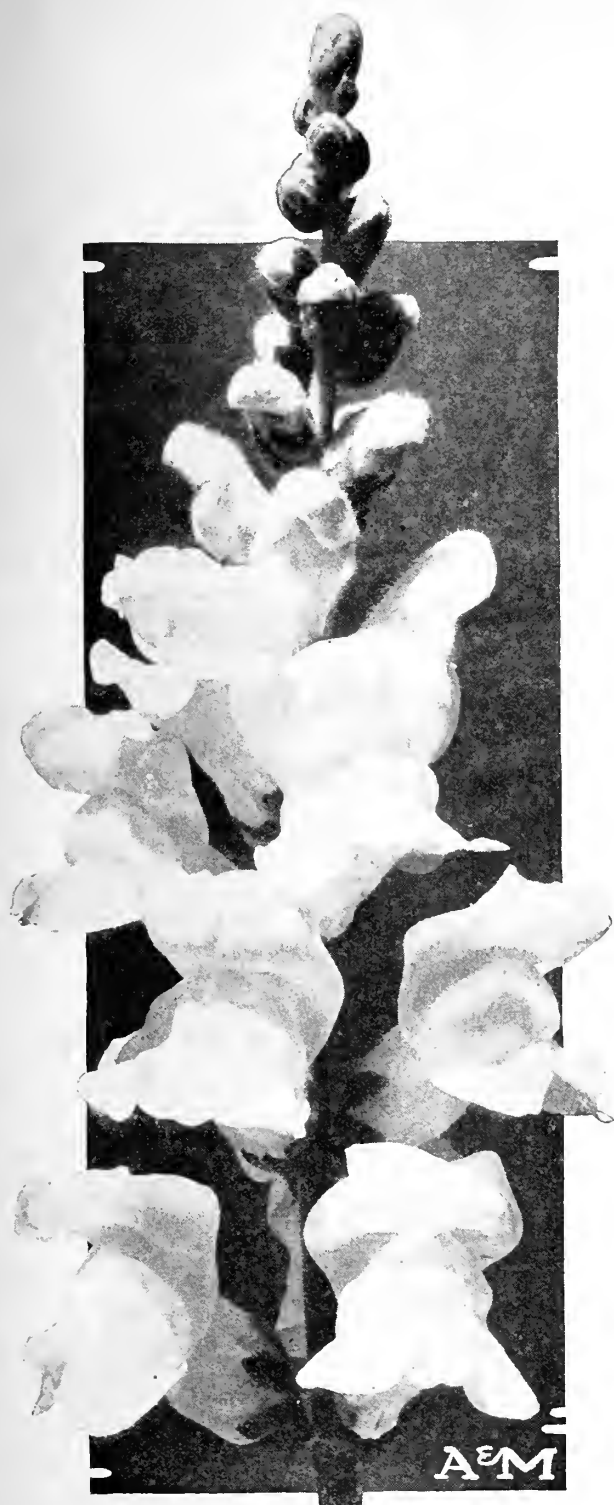
Leichtlinii—Showy trailing perennial for borders or rock gardens. Profuse bloomer; carmine rose colors. 6 inch. Pkt. 25c.

Bougainvillei—Dark blue. 6 inch. Pkt. 25c.

Large Flowered Hybrids Mixed—An excellent strain producing a wide range of rare colors. 6 inch. Pkt. 25c.

AUSTRALIAN PEA VINE (Dolichos Lignosus)

A rapid growing evergreen climbing perennial, flowering freely in large clusters of rose flowers. For covering arbors, trellises, etc., they have no superior. Pkt. 10c, 1/4 oz. 40c.



Tall Maximum Snapdragons

Have had wonderful success with seeds from your place. My Snapdragons took first prize last week at the May Festival. They were four feet eight inches long and such wonderful rich colors.—MRS. C. HIKLUND, Fillmore.

A & M CALIFORNIA ASTERS

A popular half-hardy annual produced in a great variety of classes, and an almost endless number of colors. The tallest grow about three feet high, and some varieties of dwarfs are not over eight inches high. The best method of culture is to sow the seed during the spring in boxes and transplant when large enough to handle. The seed can be sown, however, in the row where the plants are to remain, thinning them from 6 to 20 inches apart, according to variety.

A & M California Asters are the finest strains and are used extensively by home gardeners and florists throughout the country. We call particular attention to A & M California Giants and A & M American Beauty. These are highly satisfactory wherever they are grown.



A & M California
Giant Aster

The Asters have been wonderful in spite of the hot weather—lovely colors. I planted your seeds last March and am well pleased with them—have fine luck with your seeds.—Mrs. R. K., La Crescenta, Calif.

QUEEN OF THE MARKET

(Early Flowering)

One of the earliest blooming varieties blossoming frequently in July. Of spreading habit about 18 inches high. Flowers are medium sized and the petals curve outward. One of the most useful types for early market purposes.

Crimson	Pkt. 10c	Flesh Pink	Pkt. 10c
Light Blue	Pkt. 10c	Purple	Pkt. 10c
Dark Blue	Pkt. 10c	White	Pkt. 10c
Deep Rose	Pkt. 10c	Mixed	Pkt. 10c

Separate Colors, ¼ oz. 50c. Mixed, ¼ oz. 45c.

ROYAL ASTERS

(Early Flowering)

These are dwarf branching Asters about 1½ feet high. The flowers are well formed and very desirable.

	Per ¼ Oz.	Per Pkt.
Royal Deep Rose—Lavender pink .....	.55	.15
Royal Lavender—Azure blue .....	.55	.15
Royal Purple—Deep purple .....	.55	.15
Royal Shell Pink .....	.55	.15
Royal White .....	.55	.15
Royal Mixed .....	.55	.15

A & M CALIFORNIA GIANT ASTERS

A new and most worthy Aster for home gardener or florists. The delicately curled and interlaced petals form large fluffy flowers that are most beautiful. They are produced on long, willowy stems with fine foliage, but few or no side branches, which makes it possible to have large flowers without having to disbud. A & M California Giants are one of our best cutting varieties, their long stems making them particularly desirable for the commercial grower or home gardener.

	Per ¼ Oz.	Per Pkt.
Light Blue—Azure blue .....	.85	.25
Peach Blossom—Pink .....	.85	.25
Purple—Deep purple .....	.85	.25
Deep Rose—Rich dark rose .....	.85	.25
White—Pure white .....	.85	.25
A & M Mixed .....	.80	.25

Collection 5F—One packet each of the above named five new Asters, in separate colors, five packets, \$1.00.

GIANT PAEONY FLOWERED ASTERS

(Late Flowering)

An improved American Beauty type. The flowers are of immense size, very double and are borne on long stems, free from laterals. Keeps well after cutting.

Azure Fairy—Clear azure blue	Pkt. 35c
Maiden's Blush—Delicate flesh	Pkt. 35c
Swansdown—Pure white	Pkt. 35c

OSTRICH FEATHERED ASTERS

(Mid-Season Flowering)

Extremely graceful Aster, with large, loose, feathery heads, unrivaled for table decoration, flowers double and semi-double. The branching habit makes this a conspicuous border plant. Height 18 inches.

Crimson	Pkt. 10c	Light Blue	Pkt. 10c
Dark Blue	Pkt. 10c	White	Pkt. 10c
Shell Pink	Pkt. 10c	Rose	Pkt. 10c
Mixed	Pkt. 10c		

Separate Colors, ¼ oz. 60c. Mixed, ¼ oz. 55c.

Collection 4F—One packet each of the above named six varieties 50c postpaid.

KING ASTERS

The flowers of this class of Asters are large and double. The petals are quilled, making them distinct from all others and highly desirable. The plants are of upright habit, growing to a height of from 1½ to 2 feet. The stems are long and willowy, making the variety excellent for cutting purposes.

	Per ¼ oz.	Per Pkt.
Black Blue .....	.55c	15c
Crimson .....	.55c	15c
Rose .....	.55c	15c
Peach Blossom .....	.55c	15c
Lavender .....	.55c	15c
Violet .....	.55c	15c
White .....	.55c	15c
Mixed .....	.50c	15c

COLLECTION NO. 1F—One packet each of the above seven named varieties, 85c.

CALIFORNIA GIANT SUNSHINE ASTERS

(Mid-Season Flowering)

This new selection of Sunshine Asters is far superior to the old type. The petals are twisted and quilled and surround a central cluster of florets which are of a contrasting pale color. On account of the extra long stems it makes a fine cut variety. This type of Aster is not yet fully established and will be found to vary in color and form. Sunshine Mixed, ¼ oz. 90c, Pkt. 25c.

AMERICAN BEAUTY ASTERS

(Late Flowering)

This wonderful variety is a recent addition to the popular aster family. It is without doubt one of the grandest. The flowers have in-curved petals and are large and full, often measuring 4 inches across. The plants are of branching habit and the flower stems measure from 15 to 30 inches. The flowers have splendid keeping qualities. We heartily recommend this variety as one which you will be proud to have in your garden. We have a complete list of colors.

	Per 1/4 Oz.	Per Pkt.
Azure Fairy—Bright blue	\$.80	\$.25
Peach Blossom—Light pink	.80	.25
Carmine Rose—Bright rose	.80	.25
Crimson—Very large	.80	.25
Rose—Florists Shade	.80	.25
September Beauty—Pink	.80	.25
Purple—Deep purple	.80	.25
White Beauty—Pure white	.80	.25
A & M Mixed—All colors	.75	.25

Collection 2-F—One packet each of the above eight named varieties, \$1.65 postpaid.

AMERICAN BRANCHING

(Late Flowering)

An excellent variety, the plants are 2½ to 3 feet high and have a branching and vigorous growth. The flowers are well formed, being large, double and in-curved.

Lavender	Pkt. 10c
Purple	Pkt. 10c
Peerless Pink	Pkt. 10c
Peach Blossom	Pkt. 10c
Sensation Scarlet	Pkt. 10c
Black Blue	Pkt. 10c
Deep Rose	Pkt. 10c
Crimson	Pkt. 10c
White	Pkt. 10c
Separate Colors	1/4 oz. 65c
Mixed	Pkt. 10c, 1/4 oz. 50c

Collection No. 3F—One packet each of the above nine named varieties 70c postpaid.

ASTER COLLECTION NO. 6F

To encourage you to get acquainted with the several fine varieties of A & M Asters we offer a collection of one packet each A & M American Beauty Purple, A & M California Giant Rose, Paeony-Flowered Swansdown and Aurora. Four packets in all of choice colors, 85c postpaid.



A & M
American
Beauty



A & M Single Aster

SINGLE ASTERS

A & M Single Asters—Single Asters make splendid bedding, border and cut flowers. They resemble daisies, and the flowers keep well in water when cut. Mixed, 1/4 oz. 45c, pkt. 15c.

VARIOUS ASTERS

Giant Comet Mixed—Early variety of upright habit, about 2 feet high. The flowers are medium sized and full petaled. Pkt. 25c, 1/4 oz. 50c.

Pom Pon Mixed—Bushy plants about 15 inches high bearing masses of blooms. Suitable for borders, beds and for pot culture. Pkt. 10c, 1/4 oz. 50c.

Dwarf Globe Mixed—A splendid dwarf compact aster for borders and beds giving a brilliant color effect to the garden. Mixed colors. Pkt. 15c, 1/4 oz. 65c.

Aurora—This aster is quite different from others. The center of the flower is bright yellow with an outer circle of delicate blue. Height 2 feet. Pkt. 25c.

Peerless Yellow—Pale yellow aster of the American Branching type. Height 2 feet. Pkt. 25c.

Heart of France—A rich dark red. The richest, most striking color and not to be found in any other aster. The plants grow about 2 feet high and are of a branching habit. Pkt. 25c, 1/4 oz. 80c.

PERENNIAL ASTER

(Michaelmas Daisy)

Single, hardy perennial plant growing to a height of 3 ft. Blooms in the fall and will flower the first year if sown early in the Spring. Mixed, Pkt. 15c.

BALSAM (Touch-Me-Not)

A tender annual, with brittle stems and foliage. Flowers both single and double, in bright colors and variations are wax-like and very attractive. The individual blossoms floating in a dish of water exhibit their beauty to the best advantage.

Improved Double Camelia Flowered—In its extraordinary size, perfect form and brilliant colors, this fine strain of balsam surpasses all others. Height 18 inches. Pkt. 15c.

Rose Flowered—Handsome double flowers in form resembling a rose. Height 18 inches, fine mixed. Pkt. 10c, 1/4 oz. 25c.

Spotted—Large semi-double flowers well adapted for borders, fine mixed colors. Pkt. 10c, 1/4 oz. 25c.

BALSAM APPLE (Momordica)

A climbing annual growing about 15-20 ft. long. Has graceful and ornamental foliage, yellow flowers and warted golden yellow fruit, with large carmine red seeds. Thrives in hot locations. Pkt. 10c, oz. 75c.

BEGONIA

We are sole distributors of Begonia Seed from the world famous Rosecroft Begonia Gardens where the finest strains in existence are grown. Seed of the Tuberous class should be planted early in the year for best results. Other sorts can be sown at any time. Begonias generally require half shade and no wind. They also prefer a moist atmosphere and acid soil. Plants in pots should have the pots plunged in the ground or protected in some manner to keep them cool and moist. Full planting instructions are printed on each packet of seed.



Lloydii or Hanging Basket

Tuberous

- Single Mixed**—A whole range of colors. Pkt. \$1.00.
Double Mixed—Many colors and styles. Pkt. \$2.00.
Friiled Mixed—All the tuberous colorings. Pkt. \$1.00.
Narcissiflora Mixed—Very striking. Male flowers resemble the trumpet Daffodil. Pkt. \$2.00.
Crispa Marginata—Singles with crimped petals in yellow with red margin. Pkt. \$1.00.
Frau Helene Harms—Very bushy low growing hardy tuberous with double yellow blooms. An admirable bedder and stands more sunshine than others. Pkt. \$2.00.
Pearcei—Single clear sulphur yellow blooms in profusion on long stems. A gem for borders. Pkt. \$2.00.
Evansiana—The easiest grown of all tuberous. Blooms in showers of light pink. Pkt. \$1.00.
Lloydii or Hanging Basket—These plants grow upright but droop over with weight of flowers. They continue to bloom, reaching 2 feet below the basket. They also make excellent pot specimens when staked. Mixed colors. Pkt. \$2.00.

Bedding Type

These are low growing, many-flowered sorts used widely for outdoor bedding.

- Seashell**—Taller than most. White margined pink. Pkt. \$1.00.
Tanager—White with orange scarlet edge. Pkt. \$1.00.
Helen Bofinger—Dwarf White. Pkt. \$1.00.
Mermaid—A dwarfed form of Seashell. Pkt. \$1.00.
Rosabelle—Beautiful mellow pink; large blooms. Pkt. \$1.00.
Schmidtii—Flowers are pendant and tinted. Pkt. \$1.00.
Double Vernon—Charming duplex in mixed colors. Pkt. \$2.00.
Mixed Bedding Type—A fine selection. Pkt. \$1.00.

Various Begonias

Rubra Type (Fibrous rooted)—Variously known as Bamboo and Angel Wing. Their tall growth resembles a bamboo and the blooms are produced in superb large clusters. Mixed colors. Pkt. \$1.00.

Small Leaved Varieties Mixed—Mixture includes many of the small leaved varieties including Fuchsioides. Pkt. \$1.00.

Semi Tuberous Group Mixed—Splendid mixture for pots and baskets. Pkt. \$1.00.

Sutherlandi—Native of Natal with red stems and orange blooms. Low growing branching type and semi tuberous. Pkt. \$2.00.

Vitafolia—Large heart-shaped tinted pink flowers in clusters. Upright growers and very attractive. Pkt. \$2.00.

Scotch Luxurians—Spreading plant with great profusion of white blooms in clusters. Excellent for filling under tall growers. Pkt. \$2.00.

Fuchsioides—Tall form with fuchsia-like blooms of transparent scarlet. Always in flower and hardy. Pkt. \$2.00.

Incarnata—Upright intermediate growth with long pointed green foliage and pink flowers in clusters. Winter bloomer. Pkt. \$2.00.

Foliola—Foliage grows flat like a fern and the white flowers are quite small and borne in single pendants. Pkt. \$1.00.

(Write for particulars of other varieties available)



Pearcei

Rex Begonias

This class of Begonia is grown for the beautiful colorings and markings of the leaves. The seed is collected from over 100 of the Rosecroft unique collection. Pkt. \$2.00.

Standard Begonia Seed

Very attractive flower for both pot and bedding use, and should be more extensively grown for shady borders. Perennial. **Semperflorens Mixed**. Pkt. 25c.

Gracilis Luminosa—Large bright, scarlet flowers. Foliage reddish brown. Pkt. 25c.

BALLOON VINE

Climbing annual, with small flowers. The seed pods are curiously swelled or puffed and are quite attractive. Pkt. 10c.

BARTONIA AUREA

A showy California annual. Lovely large golden yellow flowers which glisten like satin in the sunshine. The height is about 2 feet, making them very desirable for bedding and cutting. Pkt. 10c.

A & M DOUBLE DAISY

(Bellis Perennis)

A hardy perennial, blossoming freely all spring and summer. Plant is about four inches high and is valuable for borders.

Extra Double Red—Pkt. 15c.

Snowball—Pkt. 15c.

Extra Double Pink—Pkt. 15c.

Double Mixed—Pkt. 10c.

BOLTONIA

(False Chamomile)

Highly desirable hardy perennial for borders growing 4-6 feet tall and bearing countless daisy- or star-like flowers over a long period in the summer.

Latisquama—Blue Pkt. 15c

Asteroides—White Pkt. 15c

BRACHYCOME

IBERDIFOLIA

(Swan River Daisy)

A charming annual deserving greater popularity. The plants, which grow about 10 inches high, are covered with Cineraria-like blooms in shades of blue and lavender. Mixed—Pkt. 10c, ¼ oz. 35c.

BROWALLIA

Elate Blue—A rich blue flowering annual which stands considerable cold weather and blooms as well in the winter as in the summer. Seed may be sown any time and it grows equally well in shade or sun. Good rock plant. 18 in. Pkt. 15c.

Speciosa Major—Exquisite coloring of shining ultramarine blue. Enriches the garden border and is useful for hanging baskets and for pot culture. Pkt. 15c.

BIDENS DAHLIODES

Flowers are of a pleasing light pink, fashioned after the single cosmos. Height 2 ft. Although a perennial, will bloom the first year if seed is sown in February. Especially good for cutting purposes. Pkt. 25c.

CACALIA

(Tassel Flower)

Coccinea Red—Sometimes called Flora's Paint Brush. An annual of easy culture growing 18 inches high. Desirable border plant and a beautiful subject for table decoration. Pkt. 10c, ¼ oz. 35c.



Candytuft Umbellata

CANDYTUFT UMBELLATA

This charming annual should be freely planted in all gardens for display or for cutting purposes. The flowers are borne in umbels and when the plant is in full bloom it is indeed beautiful. Beds or borders of solid colors are most attractive and we suggest solid colors further for the reason that when one color is planted in a row or bed the plants are of uniform height, presenting a most pleasing appearance. Local florists find it a most satisfactory cut flower and it is planted quite freely for that purpose. Seed germinates in 5 to 10 days and it may be started in beds or flats and transplanted when several leaves are formed.

Albida White	Pkt. 10c	Oz. 40c
Pink	Pkt. 10c	Oz. 40c
Crimson	Pkt. 10c	Oz. 40c
Flesh Pink	Pkt. 10c	Oz. 40c
Lavender	Pkt. 10c	Oz. 40c
Rose Cardinal	Pkt. 10c	Oz. 40c

Collection 8F—One packet each of the above separate colors 50 cents.

A & M Umbellata Mixed Pkt. 10c Oz. 30c
Umbellata Hybrida Nana—Similar to above except that plants are more dwarf and compact. Excellent for borders. Mixed, Pkt. 15c, ½ oz. 40c.

Giant White Hyacinth Flowered—A giant Candytuft bearing immense snowy white spikes, which often measure 10 inches or more. Don't fail to give this a trial. Pkt. 10c, ½ oz. 45c.

Perennial Candytuft

(Iberis)

Gibraltarica—Plants of dwarf compact habit, growing about 6 inches high. Flowers lilac. Valuable for rock gardens and borders. Pkt. 10c.

A & M CALENDULA

Very hardy annual, one foot high, blooming freely practically the whole year round. It is one of the easiest culture and is desirable for rather inferior soils, where less sturdy flowers do not thrive. Calendulas make one of our finest winter flowers. A hard frost will not hurt them. In fact, the flowers are larger and finer during the winter and spring months.

Radio—A distinct and new form of Calendula. The petals are quilled and of a brilliant orange color; very striking. Pkt. 20c.

Camp Fire—The blooms are undoubtedly larger than any other type and are a brilliant orange color with a scarlet sheen. Very vigorous grower. Pkt. 20c, ¼ oz. 75c.

Ball's Orange—Deep glowing orange. Large double flowers. Pkt. 15c, ¼ oz. 50c.

Ball's Gold—Deep golden yellow flowers borne on long stems. Pkt. 15c, ¼ oz. 50c.

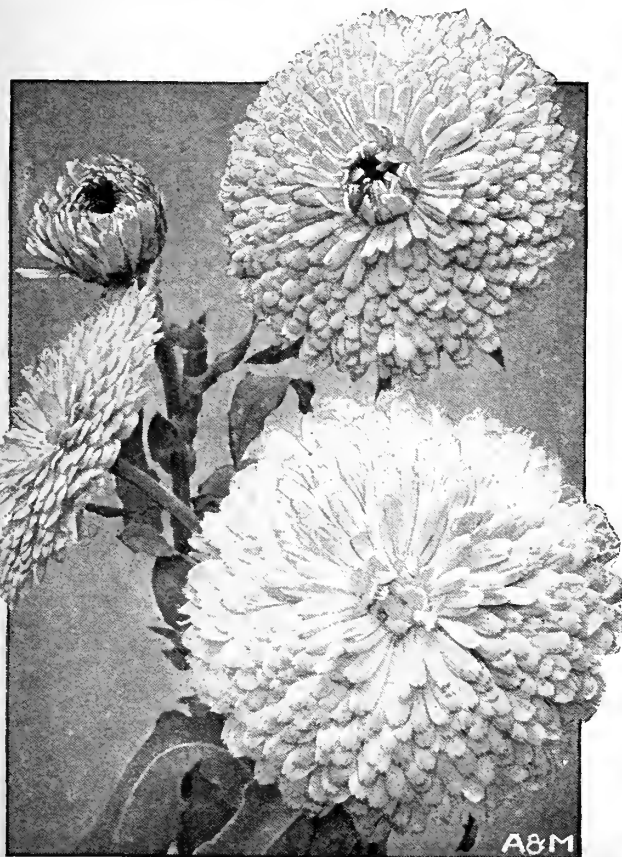
Ball's Supreme—Rich light orange with dark brown center. Pkt. 15c, ¼ oz. 50c.

Orange King—Bears giant flowers sometimes 3 inches in diameter. Color pure orange. Pkt. 10c, oz. 40c.

Lemon Queen—Like the above, but of pure lemon. Pkt. 10c, oz. 40c.

Collection 9F—One packet each of five above named sorts excluding Camp Fire and Radio, 50c.

Double Mixed—A good mixture. Pkt. 10c, oz. 25c.



Calendula—Campfire

CALCEOLARIA

Although usually grown in greenhouses and lathhouses, Calceolarias may be grown outdoors in Southern California and produce a wonderful effect from May to November. The flowers are small, pocket shaped, beautifully tigered or spotted and are borne in great profusion. For best results the seed should be sown in a hot bed or frame during the winter for spring planting out.

Grandiflora Tall Tigered Mixed.....Pkt. 50c
Grandiflora Dwarf Tigered Mixed.....Pkt. 50c

CELOSIA PLUMOSA (Feathered Cockscomb)

Plumosa Mixed—A very fine selection of the popular feathered Celosia containing many pleasing shades of color varying from pale yellow to the deepest crimson. Pkt. 10c, ¼ oz. 35c.

CELOSIA CRISTATA (Cockscomb)

Very ornamental and strong plants, producing magnificent combs of velvety looking flowers. They succeed well in the garden and make very attractive pot plants. Sow seed in the spring only, for they are very tender and will stand no frost.

Dwarf Mixed—A mixture of rich velvety colors. Height 10 inches. Pkt. 10c, ¼ oz. 65c.

Tall Crimson—Brilliant crimson combs borne on stems about 2 feet tall. Pkt. 10c, ¼ oz. 35c.

Tall Mixed—Contains shades of crimson and yellow. Height 2 feet. Pkt. 10c, ¼ oz. 35c.

CELOSIA CHILDSII (Woolflower)

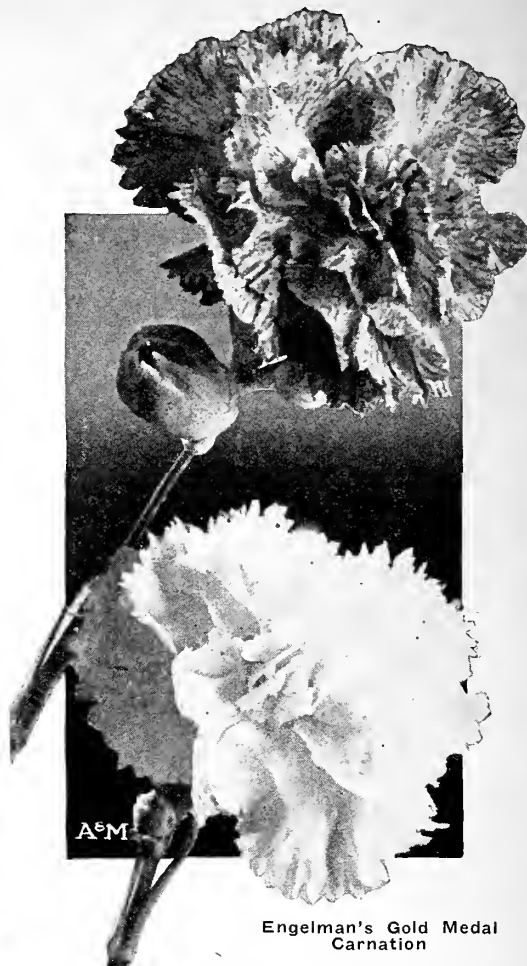
As the name suggests, the flower resembles huge balls of wool. When cut, if it is hung head down until dry, makes a beautiful everlasting flower. Height 15 inches. Mixed, Pkt. 15c, ¼ oz. 50c.

CALIFORNIA WINDBREAK

Lavatera Assurgentiflora—This perennial shrub is easily grown from seed, is very drought resistant and makes one of the quickest and best windbreaks known in California. Is used extensively as a windbreak for vegetable gardens and chicken ranches. The first year from seed it will grow to a height of at least 6 feet and flower, the flowers being an attractive shade of red. (10c per pkt.) (50c per oz.) (¼ lb. \$1.75).



Celosia Cristata

Engelman's Gold Medal
Carnation

"Gorgeous" is what people say of my beds of A & M Petunias—Giants of California. They certainly are wonderful.

—Mrs. H. L. A., Oakdale, Calif.



Canterbury Bells—Single

CARNATION

Our strain of these popular flowers is unsurpassable in beauty and variety of coloring; also in their delightful fragrance. Seed should be sown in pots or boxes and when 2 to 3 inches high, may be transplanted to the open bed or border, giving shade until the young plants have become established. Sow any time between March and September. Carnations should never be sprinkled for the flowers and buds will be ruined and turn brown.

Engelman's Gold Medal

Splendid new strain of Perpetual Carnation, containing many unusual colors. Flowers are large and of good form. Finest Mixed, Pkt. 25c.

Chabaud's Everblooming Carnations

Sparkler—Bright red	Pkt. 25c	Jeane Dionis—White	Pkt. 25c
Pearl—Silvery light pink.....	Pkt. 25c	Marie Chabaud—Lt. Yellow	Pkt. 25c
Nero—Deep red	Pkt. 25c	Giant—Deep rose	Pkt. 25c
Legion of Honor—Salmon Pkt. 25c		Chabaud's Fine Mixed.....	Pkt. 15c

Marguerite, Mixed Colors—This assortment gives a large percentage of fine double flowers. Pkt. 10c, ¼ oz. 50c.

A & M CANTERBURY BELLS

Campanula Medium—A hardy biennial, blooming the second year from seed, or the first if sown early. Grows about three feet high.

Single Blue	Pkt. 10c	Single Rose	Pkt. 10c
Single White	Pkt. 10c	Single Mixed	Pkt. 10c, ½ oz. 25c
Double Mixed	Pkt. 15c, ½ oz. 45c		

Campanula Longistyla—Flowers blue purple. Height 20 inches. Excellent for rock garden and borders. Pkt. 25c.

Calycanthema—A variety of Canterbury Bells having large semi-double flowers each resembling a cup and saucer.

Calycanthema Rose	Pkt. 15c	Calycanthema Purple	Pkt. 15c
Calycanthema White	Pkt. 15c	Calycanthema Mixed	Pkt. 15c

CATANANCHE

Coerulea—Pretty deep blue flowering perennial of the Daisy order, growing 2-3 feet high. Very useful for cutting. Pkt. 10c.



Cheiranthus Allioni

CANARY BIRD FLOWER

(Tropaeolum-Canariense)

A tender, climbing annual of the nasturtium family. Blossoms have curiously winged petals and are light yellow. Pkt. 10c.

CARDINAL CLIMBER

A new annual climber of great merit, bearing a mass of small crimson flowers. Height 10 to 15 feet. Pkt. 15c.

CHEIRANTHUS

Allioni—Perennial bearing gorgeous orange flowers. Height 12-16 inches. Charming in borders and rock gardens. Pkt. 10c, oz. 45c.

CENTAUREA AMERICANA

Beautiful thistle-like flowers 4 inches in diameter. Annual. Height 2 feet. White, Pkt. 10c. Lilac, Pkt. 10c. Each 1/2 oz. 40c.

CENTAUREA CANDIDISSIMA

True Dusty Miller—Broad silvery white foliage; useful for edging. Height 12 in. Pkt. 10c.

CENTAUREA IMPERIALIS (Royal Sweet Sultan)

This is the variety so popular in the florist's store. The plants are of spreading habit and one plant has been known to keep a home replenished with cut flowers during the entire summer. Height 3 to 4 feet. A hardy annual.

Amaranth Red	Pkt. 10c, 1/4 oz. 30c
Lavender	Pkt. 10c, 1/4 oz. 30c
Rose	Pkt. 10c, 1/4 oz. 30c
Purple	Pkt. 10c, 1/4 oz. 30c
White	Pkt. 10c, 1/4 oz. 30c

Collection No. 14-F—One packet each of the above separate colors, 35c.

A & M Mixed Colors—Pkt. 10c, 1/4 oz. 25c.

Suaveolens Yellow—Similar to Imperialis but producing yellow flowers. Pkt. 10c, 1/4 oz. 35c.

CENTAUREA CYANUS (Corn Flower or Bachelor's Button)

This old fashioned hardy annual is still a great favorite for cutting purposes. The deep rich blue is the most popular. The mixture contains shades of pink, white, lavender and blue. Height 2 to 3 feet.

Double White—This variety is absolutely pure white and is very double. Pkt. 10c.

Double Blue—A pleasing shade of blue. Pkt. 10c, oz. 45c.

Double Pink—Bright Pink. Pkt. 10c.

Double Ruby—Unique color in Centaureas. Pkt. 10c.

Double Mixed—Pkt. 10c, oz. 40c.



Centaurea Americana

CALLIOPSIS

These will grow luxuriantly in any situation and are most useful, affording a constant supply of richly marked flowers for cutting. All varieties are annuals. The tall varieties often reach a height of three feet. The dwarf varieties make splendid borders and low beds.

Crimson King—A rich deep crimson. Height 8 to 10 inches. Pkt. 10c.

Tiger Star Mixed—The flowers are star shaped of rich red color; the end of each petal is spotted golden yellow. Height 10 inches. Pkt. 10c.

Dwarf Bicolor Mixed—A splendid mixture of all the attractive varieties of this class. Pkt. 10c, 1/2 oz. 25c.

Tall Single Mixed—Choice tall single varieties. Pkt. 10c, oz. 30c.

Tall Double Mixed—Double and semi-double flowers. Pkt. 10c, oz. 30c.

CLARKIA

A hardy annual of easy culture, growing about 18 inches high and flowering in great profusion. Native of California. Seed sown in the fall will give early blossoms in the spring. Seed may also be sown in the spring and summer. Will grow in shade or sun.

Double Brilliant—Bright pink. Pkt. 10c.

Double Chamolms—Pink suffused with cream. Pkt. 10c.

Double Salmon Queen—Pkt. 10c.

Double Scarlet—Pkt. 10c.

Double Mixed—Pkt. 10c, 1/2 oz. 45c.

CACTUS

Mixed Varieties—Good results may be obtained by propagating cacti from seed. Sow in flats using half sand and half leaf mold and cover seed very lightly. Cover the flat with glass and place in a warm situation. Keep slightly moist. Pkt. 25c.

CLEOME

(Spider Flower)

Pungens Rose Queen—Very showy annual attaining a height of 4-5 feet producing fantastic flowers of bright rose. Easily grown and good for bees. Pkt. 10c.

CLIANTHUS DAMPIERI

Shrub-like perennial plant producing clusters of bright red flowers with black spot. Pkt. 25c.

COIX LACHRYMAE ("Job's Tears")

Curious ornamental grass with broad corn-like leaves and seeds of a light slate color. Valuable for winter bouquets with everlasting flowers. Strings of handsome beads are made from the seeds. Hardy annual; three feet high. Pkt. 10c, oz. 30c.



Cerastium

CERASTIUM

Blebersteinii—Hardy perennial with pretty narrow white foliage. Makes a very effective silver edging, and is also useful for rockeries. Pkt. 15c.

COSMOS

A garden favorite producing an array of large artistic flowers in pink, white and crimson shades. The Early Flowering varieties may be sown from early spring to late fall and they will bloom within 60 to 75 days after planting.

The late varieties are autumn flowering and should be planted in late spring or during the summer.

Sow seed in the open ground where plants are to remain, or they may be transplanted from seed bed or flats. When plants are about 10 or 12 inches high the tops should be pinched out to make a branching plant.

Early Giant Sow the seeds of these in the early spring to late summer. They are very large flowering and excellent for garden show or for cutting:

Pink Pkt. 10c, 1/4 Oz. 25c White Pkt. 10c, 1/4 Oz. 25c
Crimson Pkt. 10c, 1/4 Oz. 25c Mixed Pkt. 10c, 1/4 Oz. 20c

Late Giant These are autumn flowering. Sow the seeds during late spring and summer.

Pink Pkt. 10c, 1/4 Oz. 20c White Pkt. 10c, 1/4 Oz. 20c
Crimson Pkt. 10c, 1/4 Oz. 20c Mixed Pkt. 10c, 1/4 Oz. 20c

Early Crested A very beautiful new sort with a decidedly double or crested center. They are admired by all who see them. About 75% of the plants will produce the crested flowers—the remainder will be large single flowers.

Early Crested Pink... Pkt. 25c Early Crested White . Pkt. 25c
Early Crested Crimson Pkt. 25c Early Crested Mixed . Pkt. 25c

Late Crested The large crested flowers produced abundantly on plants equal in size to the late Giant, present a most striking appearance. Mixed, Pkt. 25c.

Klondike Cosmos A handsome variety for late autumn blooming. Flowers are brilliant orange yellow and very large. The foliage is quite different from other Cosmos, being rather lacy and dense. It requires a long growing season, so must be planted during spring and early summer. Pkt. 15c, 1/4 oz. 45c.

COBAEA SCANDENS (Cup and Saucer Vine)

A perennial climber of rapid growth; very valuable for covering trellises, arbor, trunks of trees, etc. Will cling to any rough surface, often attaining a height of 30 to 40 feet in one season.

Scandens Alba—White flowers. Pkt. 10c.

Scandens Purpurea—Purple flowers. Pkt. 10c, 1/2 oz. 35c.

COLEUS

These ornamental foliage plants are very popular for growing in protected borders or for pot culture. They are tender perennials but make a satisfactory growth from seed the first year. A very interesting plant to grow from seed, for many new and fine color combinations are obtained in this way.

Extra Choice Mixed—Pkt. 25c.

Choice Mixed—Pkt. 15c.

Lacinated and Fringed Mixed—Pkt. 25c.

CINERARIA

For shaded situations such as the north side of the house, under palms, trees, etc., the Cineraria is ideal. It is best treated as an annual and under favorable conditions if the seed pods are left to mature, it will reseed itself. In Southern California seed should be sown in flats July to November. Soil in the flats should consist of one part loam, one part leaf mold and one part sand. Set the flat in a cool shaded place such as north side of a building and keep well watered. 8 to 10 days are required for germination.

A & M Semi Dwarf—This is an extraordinary strain selected for large flowers, uniform height of plants and the most attractive colors. They may be used as pot plants or for bedding purposes and we especially recommend them to those who want the very finest strain. Pkt. 50c.

Hybrida Large Flowering Dwarf—A large flowering dwarf strain, having brilliant colored flowers and is especially good for outdoor bedding. Pkt. 25c.



Single Giant Cosmos

COLLINSIA

Bi-color — Extremely effective hardy annual for spring or autumn sowing. Grows 12 inches high and is excellent for growing in clumps. Flowers lilac and white bi-color. Pkt. 10c.

COMMELINA

Sellowiana—Creeping perennial rooting at the joints. Lovely large rich blue flowers. Pkt. 25c.

COREOPSIS

Lanceolata Grandiflora Single—This is a hardy perennial bearing a profuse and long continued succession of large, bold, golden yellow flowers during the spring and summer months. It is a splendid cut flower, the stems are long and the flowers keep well in water. Seed sown in the early spring will flower the same season. Seed may also be sown in the fall. Height 2 1/2 feet. Pkt. 10c, 1/2 oz. 25c.

Improved Double Yellow—The flowers are immense and a great improvement over the old semi-double strain. Pkt. 15c.

CYCLAMEN

A tender, bulbous perennial, used in greenhouses and window gardens. It is easily grown from seed. Sow in the fall or early spring. A & M Choice Mixed. Pkt. 35c.

CYNOGLOSSUM

Amabile (Chinese Forget-me-not)—A biennial 18 in. high, producing beautiful flowers. Much appreciated in dwarf borders, also as cut flowers. Pkt. 10c, 1/4 oz. 30c.



Cineraria, A & M Semi Dwarf

A & M DELPHINIUM (Perennial Larkspur)

One of the finest garden flowers and becoming increasingly popular both for garden show and for cutting. Seeds sown in beds or flats during August, September, October and November will bloom the following spring. Cover the seed lightly and shade the seed bed during August and September. The first transplanting may be made when plants are sufficiently large, spacing them about 6 inches apart. After they have bloomed the first time select the most desirable plants and transplant them to a permanent place in the garden. Spray the plants occasionally with Bordeaux Mixture to prevent Mildew. Seed germinates in about 20 days.

Sunbeam Hybrids

Although individual named sorts do not generally reproduce themselves from seeds true to name or color nevertheless a carefully selected strain with good parentage is superior in all respects. Under proper cultivation the long, graceful spikes of Sunbeam Hybrids grow to a height of 3 to 5 feet and furnish abundant bloom for cutting. Seed is selected from only fine specimen plants of the most attractive blue and lavender shades. Flowers produced from this strain form some wonderful color combinations. Per Pkt. 35c, 3 Pkts. \$1.00.

Wrexham Hollyhock Strain

Flowers of this magnificent strain are long and tapering and formed after the manner of hollyhocks. The strain we offer carries a rich assortment of tints delightfully blending light and dark shades. Pkt. 25c.

Gold Medal Hybrids

The finest hybrids to be found in Delphinium and all the lovely blues, lavenders and mauves are in this mixture. The plants are vigorous growers, producing tall, handsome spikes. Pkt. 20c, 1/8 oz. 40c.

Belladonna

A lovely turquoise blue, which is a continuous bloomer. Splendid for cutting. This is the tall Delphinium so often seen in beds and borders and as cut flowers in the florists shops. Pkt. 20c, 1/8 oz. 55c.

Bellamosa

A rich deep blue in color and of the same type and habit of growth as the Belladonna. The two grow beautifully together. Pkt. 20c, 1/8 oz. 55c.

Cardinale

Scarlet perennial Larkspur. This handsome native flower grows to a height of 4 feet or more and produces its brilliant flowers during the early summer months. Pkt. 15c, 1/8 oz. 50c.

Chinensis Fine Mixed

A very pleasing mixture containing dark blue, light blue and white, that blooms the first year from seed sown in the early spring. Pkt. 10c, 1/4 oz. 30c.

Delphinium, Sunbeam Hybrids

CYPRESS VINE (Ipomoea Quamoclit)

A tender climbing annual with fern-like foliage and small star-like red or white flowers. A beautiful vine for growing in porch boxes, hanging baskets, etc., or for covering trellises. Soak the seed 3 hours before planting. Mixed Pkt. 10c.

CREPIS (Hawkweed)

Pretty star-like semi-double flowers of bright rose color. 18 inches high. Annual. Useful for cutting. Pkt. 15c.

DAHLIA SEED

With the right seed wonderful results may be obtained and your garden will be a riot of blooms the first season. Each seed produces a new variety and this makes it the most fascinating part of growing Dahlias. They are seldom like the parent plant in type or color. There is no better seed than that grown in California where the long growing season ensures the seed being properly matured. This is not possible in other localities where growth is stopped by rain or frost before the seed is ripe.

Culture—Sow seed in flats, covering lightly with sand, screened leafmold or similar material. Place a square of burlap on top of seed bed and keep moist until seed is germinated, removing the burlap as soon as sprouts appear. When plants are 4 or 5 inches high pot them and when well established transplant to the garden. Dahlias from seed will bloom the first season about four weeks later than from tubers.

A & M Prize Mixed—All handpicked from the very finest, large flowering and double varieties. Many wonderful seedlings have resulted from this strain of seed. Per Pkt. 75c.

A & M Standard Mixed—Seed selected from choice varieties of Decorative and Cactus types. Pkt. 35c.

Coltless Hybrids (Mignons)—These budding dahlias grow from 1-1 1/2 ft. high. Plants are of bushy habit and colors are bright. Free flowering. Pkt. 50c.

Pompon Mixed—The small double dahlia so much prized for cutting. Pkt. 35c.

Single Mixed—Seed saved from the choicest varieties. Pkt. 10c.

DATURA (Trumpet Flower)

Handsome ornamental annuals with large showy flowers. Grows to a height of 3 feet, will flower continuously throughout the summer. Pkt. 10c.



Crepis

SHASTA DAISY

This popular flower has been much improved and the Alaska is the finest of all. The Shasta Daisy is noted for its keeping qualities as a cut flower. They should be planted in the fall or early spring. If planted in late fall will not bloom until the following spring.

Alaska—The finest. Pkt. 10c.

DIGITALIS (Foxglove)

A hardy biennial blooming the second year from seed. Grows usually about 3½ feet, although in very rich soil sometimes 6 feet. The bell shaped flowers are borne on long spikes, and come in shades of purple, lavender, rose and white, all spotted lightly inside the blossom. Thrives best in cool, shady locations.

Gloxiniiflora Mixed—Pkt. 10c, ¼ oz. 25c.

Giant Shirley Mixed—Pkt. 15c, ¼ oz. 35c.

DIANTHUS OR PINKS

Grows about 1 foot high, and bears beautifully colored single and double blossoms in profusion all summer. Sow seed in boxes and transplant, or sow in rows where the plants are to remain, and thin. They are largely used for border, massing in beds and for cutting. There is a wide range of colors from purest white through all shades of pink to deepest red.

Annual

Chinensis, Double Mixed—Pkt. 10c, ½ oz. 30c.

Heddewigi, Double Mixed—Pkt. 10c, ½ oz. 45c.

Heddewigi, Single Mixed—Pkt. 10c, ½ oz. 30c.

Perennial

Plumarius (Grass Pinks)—A hardy perennial pink used for borders and cutting and producing a constant bloom of flowers of varied hues.

Double Grass Pink, Mixed—Pkt. 10c, ¼ oz. 50c.

Single Grass Pink, Mixed—Pkt. 10c, ½ oz. 30c.

Dianthus Deltoides—Invaluable plant for rockery, forming masses of small crimson flowers. Hardy perennial. Height 6-8 inches. Pkt. 25c.

Dianthus Caesius—Another splendid rock plant forming rosy-pink flowers in great profusion. Perennial, very dwarf. Pkt. 15c.

**DIANTHUS SWEET
WIVELSFIELD**

This remarkable new hybrid is quite distinct from the annual Sweet William. It has a great variety of color, and a long blooming season. Magnificent bedding subject. Pkt. 25c.

**DIDISCUS COERULEUS
(Blue Lace Flower)**

This beautiful lace flower is a very attractive cut flower of a lovely blue shade and is most effectively used when mixed in bouquets. The culture is easy and being a hardy annual may be planted from early spring to late summer. If you like to raise your own cut flowers you'll be glad to have this in your collection. Pkt. 15c.

**DOLICHOS OR HYACINTH
BEAN**

Tender, climbing annual. Grows rapidly and is valuable for covering a trellis. Flowers in purple and white. Sow seed in open ground late in April.

Mixed—Pkt. 10c.

DUSTY MILLER

See Centaurea Candidissima.

ERIGERON

Speciosa Hybridus—Mauve blue flowers with yellow centers. Pleasing perennial 1½-2 feet in height. Excellent for cutting and rock gardens. Pkt. 15c.

ERYNGIUM

Amethystinum—Perennial with thistle-like flowers of amethyst blue color borne on stems of bluish-green tinge. Very effective in a dried state and much in demand by florists. Height 2-3 feet. Pkt. 25c, ¼ oz. 50c.

EUPHORBIA

(Snow on the Mountain)

Very pretty annual plant with white and green edged foliage. Easy to grow. Height 2 feet. Pkt. 10c.

EVERLASTING FLOWER COLLECTION

Collection No. 16-F—One packet each of Acroclonium Rosea, Gomphrena Mixed, Helichrysum Mixed, Statice Perezii, Rhodanthe and Xeranthemum. Special 50c.

EVERLASTING PEAS

See Lathyrus Latifolius.

FOUR O'CLOCK (Mirabilis)

Also called Marvel of Peru. A hardy annual of easy culture, growing about 2 feet high. The plant is free flowering, bearing blooms of a great variety. Mixed—Pkt. 10c, oz. 25c.

FOXGLOVE

See Digitalis.

FORGET-ME-NOT (Myosotis)

A hardy perennial with small blue star-like flowers borne in clusters on long stems. Will bloom the first year if sown early and does best if sown in a box and then transplanted to a cool moist situation.

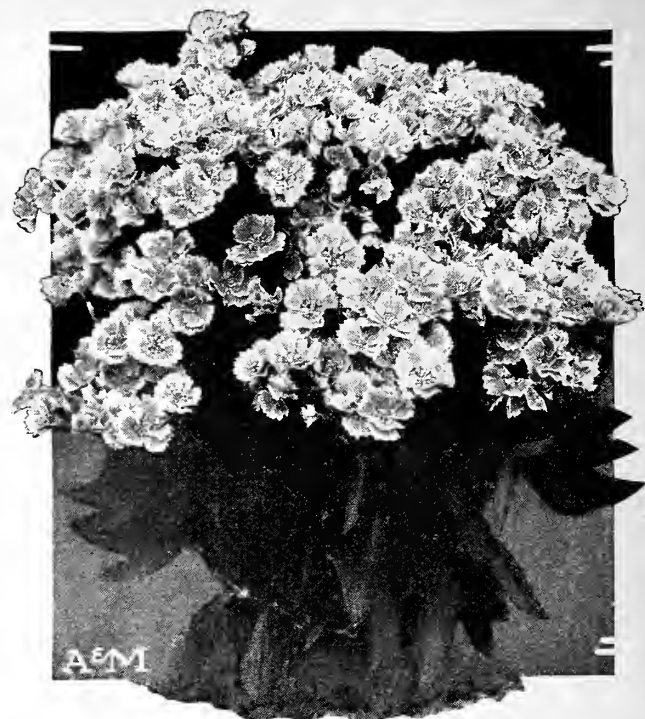
Alpestris Tall—Light blue flowers, strong, long stems and vigorous growers make this a popular variety. Pkt. 10c, ¼ oz. 35c.

FREESIA

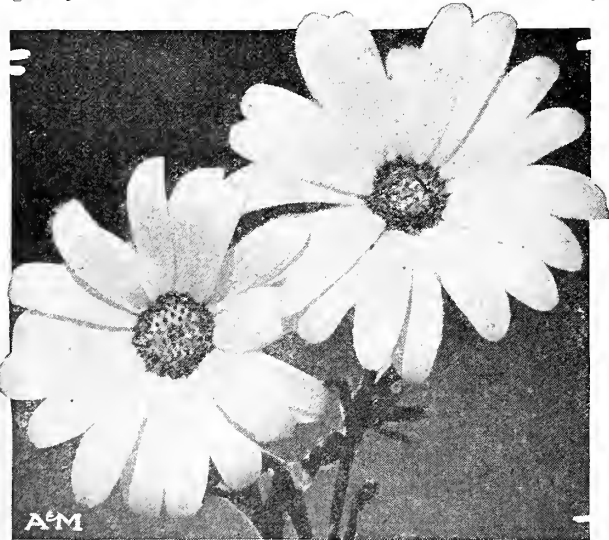
These dainty little popular flowers may be grown from seeds or bulbs. They flower very early in the spring and are one of the most delightfully fragrant flowers in cultivation. Freesias are easily grown from seeds and will bloom the following spring if sown in the fall.

Purity—White. Pkt. 10c, oz. 55c.

Improved Rainbow Mixed—Finest pastel shades. Pkt. 15c.



Dianthus—Sweet Wivelsfield



Dimorphotheca Aurantiaca

**DIMORPHOTHECA
(The Golden African Daisy)**

A showy annual from South Africa which has become a great favorite on account of its easy culture and beautifully colored flowers. The colors include all shades of yellow, orange, cream and white and massed in beds or wide borders they have a very brilliant effect. They may be planted during the fall, spring or summer.

Aurantiaca—Brilliant orange. Pkt. 10c, ¼ oz. 50c.

Hybrids—Mixed colors. Pkt. 10c, ¼ oz. 50c.

Salmon Beauty—Delightful shade. Pkt. 15c.

Ringens—Recent introduction from South Africa. The flowers are pure white with a conspicuous blue ring around the center. Pkt. 25c.

Ecklonis—Perennial bearing beautiful large white flowers with small deep blue disc. Bush-like plant 1-1½ ft. high. Pkt. 15c.

A & M California Poppy (Eschscholtzia)

Hardy annual. Seed may be sown from October until April. Fall sown seed will bring large early flowers. Sow the seeds where the plants are to remain. To hold the moisture and insure good germination place burlap bags or cheese cloth on top of the seed bed or row, removing them just as soon as the tiny sprouts appear. Removal of the covering at the proper time is important, for leaving them too long will weaken the plants. Cultivation of poppies and all other plants during the winter months is quite necessary. Well cultivated soil absorbs the heat from the sun, allows a free circulation of air and provides good growing conditions generally. Poppy seeds are small and all small flower seeds should be planted to a depth of about twice the breadth of the seed itself.

Some wonderful new varieties have been produced recently. Remarkable color combinations which make striking beds and splendid cut flowers. California Poppies have a long blooming season which may be prolonged by cutting off the seed pods.

A SUGGESTION

On your automobile and hiking trips take with you a few ounces of California Poppies and scatter the seeds along the way. Remember that every wild flower picked reduces the amount of seed matured. To refrain from picking them and to scatter a few seeds as you go will assist in preserving the beautiful natural California flora we all so much enjoy. Another good plan is to sow on vacant lots and other spaces and let the winter rain germinate the seed.



Ramona
California
Poppy

Double California Poppies

A new and delightful form of the State flower.

Double Alba—Pure white. Pkt. 15c.

Double Orange—Double form of Aurantiaca. Pkt. 15c.

Double Rose—Very fine. Pkt. 15c.

Standard California Poppies

Aurantiaca—The true California poppy. Color is deep orange. Pkt. 10c, oz. 30c, ¼ lb. \$1.00, lb. \$3.00.

California White—A re-selected pure white. Pkt. 10c.

California Golden West—Yellow with orange center. Pkt. 10c.

California Crimson—Carmine Crimson. Pkt. 10c.

California Chrome Queen—Amber yellow. Pkt. 10c.

Collection No. 19F—One packet each of the above 5 named varieties 40c.

California Mixed—Pkt. 10c, oz. 25c, ½ lb. \$1.25.

Your A & M Delphiniums in our garden have been a great attraction and source of comment this year. They have bloomed four different times and are blossoming again. They just won't stop. Am very happy to be able to recommend your seed.—MRS. D. R. LIGHT.

NEW FLUTED AND RUFFLED VARIETIES

Ramona—Novelty. This variety stands out as a distinct and very charming type in the fluted class. It is a single but the frills give it the appearance of a semi-double. The color is a glittering coppery gold with pink shadings. Very attractive. Pkt. 25c.

Orange Flame—Vivid orange-scarlet and most striking of all the new colors. The plants are very erect and compact and would do for borders. Pkt. 15c, ¼ oz. 50c.

Ballet Girl—The outside of the petals is an intense carmine, the inside a light cream, making a contrast of colors both beautiful and startling. Pkt. 15c, ¼ oz. 50c.

Tango—A bronzy red overlaid terra cotta. This variety was introduced recently and found immediate favor. Pkt. 15c, ¼ oz. 50c.

Mauve Beauty—An entirely new color. Is a beautiful shade of pure mauve. Pkt. 15c, ¼ oz. 50c.

Lovely—True to its name this variety is a bright rose pink suffused with salmon. The blooms have a satiny appearance which adds much to their loveliness. Pkt. 15c, ¼ oz. 50c.

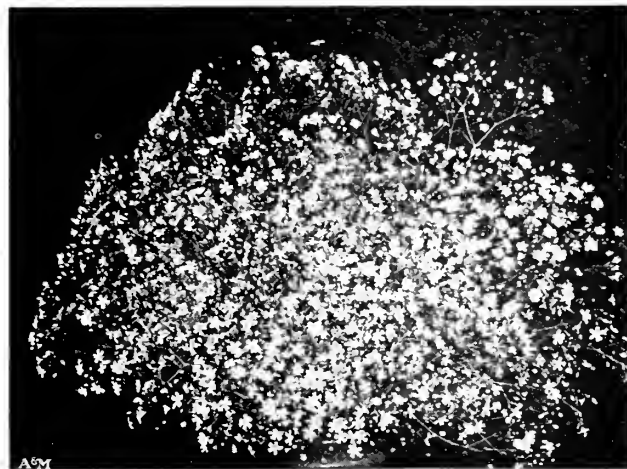
The Geisha—The inside of the petals is a brilliant gold and the outside orange-crimson. The petals are fluted, which makes the open flowers very attractive. Pkt. 15c, ¼ oz. 40c.

Vesuvius—A very odd color of wallflower red. Pkt. 15c, ¼ oz. 30c.

Scarlet Beauty—The brightest color of all, being a deep scarlet and as the plants are erect and the flowers large it gives the effect of vivid scarlet tulips. Pkt. 15c, ¼ oz. 50c.

Extra Choice Mixed—Contains the above, also many other of the newer colors. Pkt. 15c, oz. 90c.

Collection No. 17F—One packet each of the above named 9 varieties \$1.00.



Gypsophila—Elegans Grandiflora

GYPHOPHILA

A hardy annual of easy culture. Grows two or three feet high, and bears a profusion of small star-shaped white or pink flowers.

Elegans Grandiflora—Annual white. Very largely grown by florists for use in bouquets. Pkt. 10c, oz. 25c.

Elegans Crimson—Very showy. Pkt. 10c, oz. 35c.

Elegans Carmine—A recent introduction of a deep carmine. Pkt. 10c, oz. 35c.

Elegans Rose—A delicate shade. Pkt. 10c, oz. 35c.

Paniculata—Fine for bouquets; white flowers, perennial. Pkt. 10c.

Double Snow White—Beautiful double form of Paniculata white. Pkt. 25c.

GEUM

A beautiful hardy perennial producing flowers in profusion from spring till fall. It is an excellent cut flower, having long stems and keeping well.

Mrs. Bradshaw's Double Red—Large bright orange-scarlet double flowers. Pkt. 15c.

Lady Stratheden—A very striking double yellow flower, very large. Pkt. 15c.

GLAUCIUM

(Horned Poppy)

Brilliant flame colored perennial growing to a height of 4 feet in California. Very showy flowers. Pkt. 25c.

GILIA

Capitata—Graceful annual, growing to a height of about 2 feet and bearing beautiful, globular flowers about one inch in diameter. Color a rich lavender blue. Foliage is feathery and very pretty. A native of California, easily grown and very effective for mixing with bouquets. Sow seed in fall, where plants are to remain. Pkt. 10c, oz. 30c.

Tricolor (Birds Eyes)—Dainty annual about 1 foot high. The flowers are lavender, purple spotted with yellow center. Pkt. 10c, 1/2 oz. 30c.

GLOXINIA

Robusta Grandiflora Mixed—Beautiful house plant forming flowers of varied rich hues. Seed should be sown in shallow pans in warm temperature during February and the young plants transplanted into pots as soon as large enough. In no stage of growth should the leaves be wetted. Use two parts leaf mold, one part loam and one part peat humus for best results. Pkt. 50c.

GOMPHRENA

Entirely different in appearance from any other everlasting flower, and very attractive. Has a globe-shaped flower resembling a clover blossom which when cut and dried holds its shape and color well. Mixed, Pkt. 10c, 1/2 oz. 30c.



Geum

GAILLARDIA

Beautiful show plant, remarkable for the profusion, size and brilliancy of its flowers, continuing in bloom from early summer till late in the fall. Excellent for beds, borders, or for cutting. Height 18 inches.

Annual Varieties

Picta Lorenziana Double Mixed—Large heads of bright yellow and red flowers, very double with quilled petals, suitable for bouquets. Should be sown where plants are to remain. Pkt. 15c, 1/2 oz. 30c.

Indian Chief—Copper red, a new color which cannot fail to win admiration. Pkt. 15c, 1/2 oz. 30c.

Picta Single Mixed—Showy strain producing large flowers of various colors. Pkt. 10c, 1/2 oz. 25c.

Perennial Varieties

Tangerine—Compact flowers of various shades of tangerine orange. Very graceful. Pkt. 20c.

Portola Hybrids—A new variety with flowers four inches across. They are very striking in appearance, the petals being of brilliant scarlet, tipped golden yellow. Pkt. 20c.

The Dazzler—New Giant red Gaillardia with orange tips. Makes an extremely attractive table decoration. Pkt. 25c.

Grandiflora Single Mixed—Single perennial variety of varying shades of reddish brown and yellow. Pkt. 10c, 1/2 oz. 25c.

GAMOLEPIS

Tagetes—Annual plant growing about 1 foot high. Suitable for rock gardens or borders and prefers a sunny situation. Bears an attractive orange flower and is a continuous bloomer. Pkt. 15c.

**GERBERA (Tansvaal Daisy)**

Large daisy-like blossoms with flower stems rising to a height of about two feet. Colors range from white to crimson, pink, rose, yellow and lilac shades. Flowers both summer and winter. Seed sown under lathhouse conditions in sandy soil where good drainage is provided germinates easily. (Illustrated above.) Pkt. 25c, 100 seeds 75c, 1,000 seeds \$5.00.



Godetia

HELIANTHEMUM

(Rock or Sun Rose)

Mutabile—Very low growing evergreen plant forming large clumps which are completely covered by small single rose-like flowers of various colors. They are drought resisting and useful for rockeries and borders. 8-12 inches. Pkt. 10c.

HELIANTHUS

See Sunflower.

HELICHRYSUM

(Straw Flower)

A free-flowering, hardy annual, growing four or five feet high and bearing beautiful straw-like flowers in a great variety of shades and colors.

Canary Yellow—Pkt. 10c.
Salmon—A bright salmon pink. Pkt. 10c.
Silver Globe—Glistening white. Pkt. 10c.
Golden Ball—Deep gldn. yellow. Pkt. 10c.
Fireball—Bright scarlet. Pkt. 10c.
Violet—Pkt. 10c.
Crimson—Pkt. 10c.
Rose Carmine—Pkt. 10c.
Rose Queen—Pkt. 10c.
Silvery Pink—Pkt. 10c.
Separate Colors—1/4 oz. 25c.
All Colors Mixed—Pkt. 10c, 1/2 oz. 35c.
Collection No. 45-F—One Pkt. each of the above 10 named varieties, 75c.

HELIOTROPE

A half-hardy perennial growing four to eight feet high. Small flowers, borne in graceful clusters and very fragrant. Blooms the first season from seed if sown early. Forms a large plant and requires a roomy situation.

Finest Mixed—A mixture of the best types in shades of white, mauve and purple. Pkt. 15c.

HIBISCUS

Beautiful shrub-like plants growing from 3 to 5 feet high. The flowers are 4 to 5 inches in diameter and our mixture contains many bright and varied colors. Perennial. If sown early in the spring will bloom the first year, and it is a good idea to cut the plants back after blooming. Finest Mixed—Pkt. 15c.

Sunset or Golden Bowl—Deep cream with velvety maroon center. Pkt. 15c.

GODETIA

A hardy annual, very valuable for bedding and borders. For mass effects in shades of rose, red or pink it is unexcelled. The satiny cup-shaped flowers cover the compact-growing plants. The seed should be sown in the fall or early spring.

Dwarf Single Mixed—Height 10 to 15 inches. Pkt. 10c.

Tall Single Mixed—Height 18 to 24 inches. Pkt. 10c.

Azalea Flora—New dwarf double variety. Flowers are carmine and when the plant is in full bloom it is nothing but one mass of flowers. Highly recommended for pot culture. Pkt. 15c.

Tall Double Carminea Pkt. 10c

Tall Double Rosea Pkt. 10c

Tall Double Mixed Pkt. 10c, 1/2 oz. 25c

Tall Double Mauve Pkt. 10c

Tall Double Crimson Pkt. 10c

A & M HOLLYHOCKS

A hardy perennial of upright, stately growth, five to eight feet high, unequalled for a background or covering ugly places. The seed may be sown in the fall and will bloom the following spring. If sown in the early spring many will flower in the summer. The seed is generally sown in seed beds and transplanted where they are to grow.

	Pkt.	1/4 oz.
Double Maroon	\$.10	\$.60
Double Scarlet .....	.10	.60
Double Apple Blossom .....	.10	.60
Double Newport Pink .....	.10	.60
Double Yellow .....	.10	.60
Double White .....	.10	.60
Double Mixed .....	.10	.45

Collection No. 20F—One packet each of the above six named varieties, 50c.

Imperator—Very large fringed flowers, 6 in. across with double rosette in center resembling a crested begonia. Colors ranging through delicate pink to cerise salmon. Pkt. 15c.

Annual Single Mixed—A recent introduction in hollyhocks. This fine single mixture if sown in the spring will flower the first year. Pkt. 10c, 1/2 oz. 30c.

Perennial Single Mixed—Pkt. 10c.

HUMULUS (Japanese Hop)

A rapid growing ornamental climber covering arbors, trellises, etc. in one season. The foliage resembles the common Hop and is very luxuriant, making a dense vine. Will stand extreme heat, and remain green until frost. An annual.

Japonicus—Green foliage and a strong grower. Plant seed in Spring after soil has begun to warm. Pkt. 10c, 1/4 oz. 25c.

Japonicus Variegatus—Beautifully splashed and striped with silver. Pkt. 10c.

IMPATIENS

Very brilliantly colored tender perennial, valuable alike as a pot plant or for shady beds. Grows easily from seed. 1-2 feet high.

Sultani Hybrids—Wide range of colors from pale pink to crimson. Pkt. 25c.

Holstii Hybrids—Colors vary from pink to lilac and ruby to scarlet. Pkt. 25c.



Double Hollyhock

HEUCHERA (Coral Bells)

Sanguinea—Hardy perennial 1 1/2 feet high. Very easy to grow. The crimson-scarlet flowers are fine for cutting. Pkt. 15c.



Helichrysum



Hunnemannia

HUNNEMANNIA (Bush Eschscholtzia)

Known also as the Mexican Tulip Poppy. An erect-growing tender perennial, about 2 ft. high. Foliage fine-cut, blossoms beautifully cup-shaped, bright yellow and about three to four inches across. Stems, long and smooth. Unlike the average poppy, Hunnemannia will keep for several days in water and makes a splendid cut flower. Pkt. 15c, 1/2 oz. 50c.

ICE PLANT (Mesembryanthemum)

Crystallinum—The variety is largely grown for the glistening foliage. The leaves are large, fleshy and covered with glistening dots. The flowers are small and white. This is not the trailing variety used on banks. Pkt. 10c.

IPOMOEA

Splendid rapid growing climbers. The flowers are beautiful and varied and resemble giant Morning Glories. The foliage is luxuriant and makes a growth of 10 to 30 feet a season. The seed of several varieties, especially the moon flower, should have the outer shell punctured and then soaked in water for twelve hours or more to germinate it.

Coccinea—Brilliant scarlet flowers with small foliage. Pkt. 10c.

Bona Nox (Evening Glory)—Fragrant violet flowers, expanding in the evening. An annual. Pkt. 10c, 1/2 oz. 25c.

Giant Pink—Large flowers in a delightful shade of pink. Pkt. 10c, 1/2 oz. 30c.

Grandiflora Alba (White Moonflower)—Large white fragrant flowers which expand at night and early morning. Annual. Pkt. 10c, 1/2 oz. 30c.

Heavenly Blue—Sky blue flowers and one of the most attractive of Ipomoeas. An annual. Pkt. 15c, 1/4 oz. 40c.

JACOBAEA

Double Red—Graceful free-flowering annual, producing dense heads of double flowers, which make delightful bouquets. Pkt. 25c.

JOB'S TEARS

See *Coix Lachrymae*.

KENILWORTH IVY

An attractive little perennial trailing plant, very useful for baskets, pots and rock work. Pkt. 10c.

KOCHIA (Summer Cypress)

Childsii Improved—A splendid ornamental annual plant, forming dense oval bushes, 2 to 4 feet high, of small feathery light green foliage. As summer advances this changes to a carmine hue and finally to a fiery red. A very attractive plant at all times. Also called "Burning Bush." Pkt. 10c, oz. 25c.

KUDZU VINE (Pueraria Thumbergiana)

One of the most rapid growing vines known, often making 40 feet in a season. It may be trimmed frequently for stock feed. All kinds of animals eat it rapidly, especially good for milch cows and goats. The seed is slow in germinating and should be punctured or soaked over night in warm water. Pkt. 10c, oz. 60c.

LANTANA

A tender perennial. The plants become shrubs either large or small according to variety. They are used for borders, hedges and specimen plants, and bear verbena-like clusters of flowers. The mixtures which we offer contain scarlet, orange, white, yellow, rose and other colors. We do not have separate colors.

Choice Tall Mixed—Height 3 to 5 feet. Pkt. 10c, oz. 55c.

Choice Dwarf Mixed—Height 1 to 3 feet. Pkt. 10c, oz. 75c.

LATHYRUS LATIFOLIUS

Everlasting Pea—A hardy perennial climber of great beauty with elegant sweet pea-like flowers in great profusion; height, 6 to 8 feet.

Fine Mixed. Pkt. 10c, 1/2 oz. 50c.

LAVATERA

Splendens Rosea—An annual of easy culture growing 2 to 3 feet in height. The plants are bushy and bloom profusely through the summer and fall. The flowers resemble single Hollyhocks and make attractive bouquets when cut. Pkt. 10c.

LEPTOSIPHON

Hybrids Mixed—Profuse blooming annual. Grows about 3 inches high and is very useful for rock gardens and for edgings. Flowers are of varied colors and very showy. Pkt. 15c.

LEPTOSYNE

Maritima—Annual, 3 feet. The pale yellow flower similar to Marguerites are borne on long stems. Re-seeds in fall and produces abundance of flowers in February and March when flowers are scarce. Pkt. 15c, 1/4 oz. 35c.

LINUM (Scarlet Flax)

Grandiflorum Rubrum—A hardy annual of slender and graceful appearance with fine foliage and bright red flowers. It makes beautiful beds or borders and is largely used for cut flowers. Scarlet Flax makes a fine fall and winter flower, blooming profusely for several months. May also be sown in the spring. Height 1 1/2 to 3 feet. Pkt. 10c, oz. 40c, 1/4 lb. \$1.00.

Perenne (Blue Flax)—Slender growing hardy perennial producing a profusion of light blue flowers. Height 2 1/2 feet. Pkt. 10c.

LINARIA

Maroccana Mixed—Annual growing about 1 foot high, producing graceful spikes of varied colored flowers. They are of easy culture and once established will grow to good size plants and produce a wealth of bloom. Sow in flats and transplant. Pkt. 15c, 1/4 oz. 25c.

Macedonica Speciosa—Hardy perennial which will bloom first year if sown early. Produces in abundance long spikes of pale yellow flowers which are excellent for cutting; height 3 feet. Pkt. 15c.



Linaria macedonica Speciosa

LARKSPUR

Our double flowering varieties, with their long spikes, are excellent for cut flowers. They should be planted in beds, as a background for other small plants. With the great variety of colors one may carry out most any color scheme desired, and the bright shades will add a touch of beauty to the garden that will be a pleasure to note. They are easily grown and we know of nothing that will produce a greater show. By all means include a general assortment of A & M Larkspur in your garden for early spring blooming.

In Southern California, larkspur may be sown in Spring and Fall, where the plants are to remain or they may be transplanted from flats or seed beds. It requires 15 to 20 days for the seed to germinate and the seed bed must be kept moist.

New and Exceptional Varieties

A & M CINDERELLA

One of the finest introductions of recent years. The color is a very rich deep pink on salmon ground. Laterals can be cut two feet long without injury to plant. Pkt. 25c.

A & M LA FRANCE

Exceptionally pleasing light salmon-pink—lighter shade than Cinderella. Pkt. 15c, 1/4 oz. 50c.

A & M LILAC SPIRE

Base branching type of Larkspur with exquisite lilac-colored spikes. Pkt. 20c.

A & M WHITE SPIRE

Dazzling pure white similar in habit to above. Pkt. 20c.

A & M LOS ANGELES

Rich rose-colored spikes with dark green foliage. Pkt. 20c.

Collection 23-F—One packet each of the above five exceptional varieties. 75c.

Standard Varieties

	Pkt.	1/4 oz.	oz.
Lustrous Carmine—Glowing color	10c	30c	75c
Ageratum Blue—Medium blue	10c	30c	75c
Dark Blue—A rich deep blue	10c	30c	75c
Rose—Rose pink suffused lavender	10c	30c	75c
Scarlet Rose—Brilliant deep rose	10c	30c	75c
Lilac—A lovely shade	10c	30c	75c
White—Pure white	10c	30c	75c
A & M Mixed—All colors	10c	25c	60c

Collection No. 22-F—One packet each of the above named seven varieties, 50c.

LOBELIA

This hardy annual grows four to six inches high, is of compact growth, and literally covered with small bright flowers. By cutting back the plants during the summer and giving plenty of water they may be kept in flower all summer. Used for ribbon work and borders or hanging baskets.

Crystal Palace—Undoubtedly the finest dwarf blue Lobelia for bedding. Plants very compact, profusely covered with rich, blue flowers. Height, 4 inches. Pkt. 10c.

Hamburgia—A trailing variety specially suited as a graceful plant for hanging baskets. Light blue. Pkt. 10c.

Emperor William—A dwarf light blue with light green foliage. Pkt. 10c.

Royal Purple—Deep rich, blue-purple flower, height 6 inches, very compact. Pkt. 10c.

Bedding Queen—Very dwarf. Deep purple-violet flowers with white eye. Pkt. 10c.

LOVE-IN-A-MIST—See Nigella

LUNARIA

Biennis Purple (Honesty)—Hardy biennial usually grown as an annual. Much admired for its silvery seed pods which are used for winter decorations. Grows 2 to 3 feet high. Pkt. 10c.

LUPIN

One of our most attractive and easiest grown native flowers. The plants grow 2 to 3 ft. high and have handsome spikes of flowers which are fine for cutting. If the plants are not allowed to go to seed they flower for several months in the spring.

Hartwegi Dark Blue—Pkt. 10c, oz. 30c.

Hartwegi Sky Blue—Pkt. 10c, oz. 30c.

Hartwegi Mixed—Pkt. 10c, oz. 30c.

Perennial Lupin—A very beautiful hardy perennial. The foliage is a soft green and the stately spikes of flowers rise several feet above the foliage. They bloom continuously during the spring. Choice Mixed—Pkt. 15c, 1/2 oz. 45c.



A & M Larkspur

LILIUM REGALE

This Lily may readily be grown from seed. The flowers inside are canary yellow fading to white and suffused pink. Outside they are white shaded purple. Very profuse bloomer, particularly suited to California. Lift the bulbets in the fall and re-plant deeper. Pkt. 25c.

A & M MARIGOLD

A & M strains of Marigold are becoming increasingly popular, and below we offer varieties which are most in demand.

Marigold is a hardy annual, in dwarf and tall varieties, growing from 6 in. to 3 feet high. The flowers are various shades of yellow and brown. The tall varieties are very valuable for large bedding or background work, and the dwarf varieties for borders.

African (Fistulosa Type)

African Tall Double Orange—Beautifully formed flowers of gigantic size and bright color; height, 2½ feet. Pkt. 10c, ¼ oz. 40c, oz. \$1.25.

African Tall Double Lemon—Like the above but a pure citrus yellow. Pkt. 10c, ¼ oz. 40c, oz. \$1.25.

African Tall Double Mixed—Pkt. 10c, ¼ oz. 25c, oz. 75c.

Alldouble Orange—Extra fine selection of orange Marigolds. Pkt. 25c.

Tall French

The flowers are much smaller than the African, but are greatly prized for bedding.

Tall French Single Brown—This fine flower is being grown extensively for florists. It is a combination of beautiful shades of brown and fine for cutting. Pkt. 10c, ¼ oz. 25c.

Tall French Mixed—In shades of yellow, brown and tricolors. Height, 2 ft. Pkt. 10c, ¼ oz. 25c.

Dwarf French

A & M Dwarf French Golden Ball Marigold—This is one of the finest border plants. Habit of growth is compact and it blooms well over a long season. In climates similar to Southern California, planted in the early fall, it blooms all winter or if planted in early spring will bloom throughout the summer. The round golden yellow flowers are very attractive and pleasing. Pkt. 10c, ¼ oz. 25c.

Dwarf French Legion of Honor—The flowers are single and a dark, velvety brown, gracefully surrounded by a distinct gold ring. The compact, bushy plant flowers abundantly and is more lasting than any other annual. Pkt. 10c, ¼ oz. 25c.

Dwarf French Double Dark Brown—Pkt. 10c, ¼ oz. 25c.

Dwarf French Electric Light—Double form of Legion of Honor. Pkt. 10c, ¼ oz. 25c.

Dwarf French Mixed—10 inches high. Pkt. 10c, oz. 45c.



A & M Tall African Marigold



Matricaria

MATRICARIA (Fever Few)

Double White (Capensis)—A perennial bearing small double white flowers. Good for cutting. An old fashioned garden flower. Pkt. 10c, ¼ oz. 30c.

Golden Ball—A compact dwarf plant, used for borders. The flowers are a double yellow and bloom freely. Pkt. 10c.

MATHIOLA BICORNIS (Night Scented Stocks)

An old-fashioned annual whose purplish flowers are of delightful fragrance emitted in the evening. Pkt. 10c, oz. 30c.

MIGNONETTE

Hardy annual, growing 6 to 12 inches high and bearing pyramid-shaped spikes, exceedingly fragrant.

The seeds may be sown from early spring until fall for a succession of bloom. It is used for bedding, borders, and cut flowers.

A & M Colossal—A new giant Mignonette. The spikes are two to three inches in diameter and each plant has many spikes. The flowers are a deep cream and fragrant. A novelty worth having. Pkt. 15c, ¼ oz. 40c.

New York Market—A magnificent strain of Machet Mignonette especially suitable for florists. The flowering spikes are extra long. Pkt. 15c, ¼ oz. 50c.

Goliath Red—Robust growing variety with enormous spikes of red colored flowers; height, 15 inches. Pkt. 10c, ¼ oz. 40c.

Machet Mixed—A dwarf compact variety, with large, stubby spikes covered with copper-red flowers. Pkt. 10c, oz. 30c.

Odorata Mixed—Sweet scented. Pkt. 10c, oz. 30c.

MIMULUS

Tigrinus Queen's Prize Mixed—Commonly called Monkey Flower. A dwarf, bushy growing annual blooming freely throughout the summer. Gloxinia-like flowers, yellow to crimson. Does best in a moist, shady situation. Height 1 foot. Pkt. 10c.

Moschatus (Musk Plant)—Well known, old fashioned plant with scented leaves and small yellow flowers. Pkt. 10c.

MINA LOBATA

A showy hardy annual climber, bearing flowers of a brilliant red, changing to a pale yellow. Makes a luxuriant growth of 15 to 20 feet and flowers freely all summer. Adapted for porches, arbors, etc. Pkt. 10c.

A & M MORNING GLORY (Convolvulus)

Free flowering, rich and varied colored flowers. The climbers are very useful for covering lattice work, verandas, etc., where they are exceedingly effective. Soak the seed for several hours in warm water before planting.

Major Tall Mixed—Attains a height of 15 feet or more. Pkt. 10c, oz. 20c.

Imperial Japanese Morning Glory—The best Morning Glory for strong growth and varying colors. Height 15 to 20 feet. Pkt. 10c, oz. 30c.

MOONFLOWER—See Ipomoea

MOURNING BRIDE—See Scabiosa

MYOSOTIS—See Forget-Me-Not

MARGUERITES—See Anthemis

NIGELLA (Love-in-a-Mist)

A hardy annual, one foot high, with finely cut foliage. Oddly shaped blossoms in blue and white and curious seed pods. Of easy culture.

Miss Jekyll—Long stemmed flowers which are of a clear corn-flower blue; elegant foliage; height, 18 inches. Pkt. 10c.
Mixed Colors—Blue and white. Pkt. 10c, oz. 30c.



Nigella

A & M NASTURTiums

These favorite and well known flowers are popular because of the great variety of colors which may be obtained with very little labor. They are not particular as to soil, fertility or cultivation and may be seen at the beach resorts growing in banks of pure sand where they get little or no attention. If you have an unsightly spot, plant A & M Nasturtiums and convert it into a beauty spot. The Dwarf varieties may be used for bedding and borders while the tall climbing varieties may be used for covering unsightly fences and fence corners. The nasturtium is known to most every one but few people appreciate its real value for the uses we have described. They will bloom in a few weeks after planting and will continue until cut down by the frost.

Dwarf Nasturtiums

	Pkt.	Oz.	¼ Lb.
Aurora—Terra Cotta color.....	\$.10	\$.20	\$.60
Empress of India—Deep Crimson.....	.10	.20	.60
Cloth of Gold—Fiery red.....	.10	.20	.60
Golden King—Pure yellow.....	.10	.20	.60
King of Tom Thumbs—Deep Scarlet.....	.10	.20	.60
Ruby King—Bluish rose.....	.10	.20	.60
Vesuvius—Salmon.....	.10	.20	.60
A & M Dwarf Mixed.....	.10	.20	.60

Collection No. 24F—One packet each of the above seven named varieties, 55c.

Tall Nasturtiums

	Pkt.	Oz.	¼ Lb.
Brilliant—Bright scarlet.....	\$.10	\$.20	\$.60
Cloth of Gold—Fiery red.....	.10	.20	.60
Jupiter—Golden yellow.....	.10	.20	.60
Regelianum—Crimson.....	.10	.20	.60
Twilight—Yellow and rose.....	.10	.20	.60
King Theodore—Bright crimson.....	.10	.20	.60
Scarlet.....	.10	.20	.60
A & M Tall Mixed.....	.10	.20	.60

Collection No. 26F—One packet each of the above seven named varieties, 55c.

New Double Sweet-Scented Nasturtium

GOLDEN GLEAM—This unique novelty in Nasturtiums is offered for the first time. The plant forms a vigorous, large bush which throws out runners averaging 18 in. The flowers are double, delightfully fragrant and of an attractive golden yellow color. When at full bloom the entire plant is a blaze of color. Pkt. 25c.

NEPETA MUSSINI

One of the best rock garden plants. It blooms nearly all the time and the flowers are lilac blue on stems 12 inches high. The whole plant is aromatic. Hardy perennial. Pkt. 25c.

NEMOPHILA

A hardy California annual growing about six inches high. The blossoms are cup-shaped and the colors are blue, white, lavender and spotted. The seed may be sown from October to March and is very valuable for carpet bedding.

Insignis (Baby Blue Eyes)—Sky blue, with white eyes. Pkt. 10c, oz. 30c.

Choice Mixture—Pkt. 10c, oz. 30c.

NEMESIA

Hardy annual. This flower is obtainable in numerous shades of beautiful colors, and when grown in mass form, gives a fine effect. Sow in a seed bed early in the spring and transplant.

Strumosa Suttoni—Mixed colors height 15 inches. Pkt. 25c.

Nana Compacta, Triumph Mixed—A brilliant mixture of colors making a fine low border or bed. Height 6 inches. Pkt. 25c.

Compacta Blue Gem—Pretty forget-me-not blue color. Very beautiful for edging or pot culture. Pkt. 25c.

NICOTIANA, OR FLOWERING TOBACCO

A hardy annual growing 3 to 4 feet high and of branching habit. The plants are covered with the slender tubular flowers all summer. They may be used as a back ground or as single specimens. Popular for its evening fragrance.

Affinis—White, and very fragrant. Pkt. 10c, ½ oz. 25c.

Sanderac Mixed—A new, large flowering type, with various bright-colored blossoms. Pkt. 10c, ½ oz. 25c.

OENOTHERA

Evening Scented Primrose—A tall growing plant bearing an abundance of large yellow flowers which expand in the evening. Height 2 to 3 feet. May be planted in part shade.

They are very sweet scented, are a valuable addition to any garden. Easily grown. Pkt. 10c, oz. 25c.

PAINTED DAISIES

(Annual Chrysanthemum)

These hardy annuals are very showy and effective garden favorites. They grow to a height of about 2½ feet, producing a profusion of very lovely daisy-like flowers. In some of the varieties, as may be noted below, contrasting colors are produced in zones, these zones being well defined and of bright colors. They are easily grown, excellent for cutting purposes and are used freely in California as a florist cut flower. They do not require much water.

Burridgeanum —Pure white with scarlet zone and yellow inner zone.....	Pkt. 10c, ¼ Oz. 25c
Chameleon —Golden yellow with scarlet zone.....	Pkt. 10c, ¼ Oz. 25c
Eastern Star —Primrose with brown disc.....	Pkt. 10c, ¼ Oz. 25c
Evening Star —Pure golden yellow.....	Pkt. 10c, ¼ Oz. 25c
Northern Star —Large white, yellow zone.....	Pkt. 10c, ¼ Oz. 25c
Sultan —Red with yellow zone.....	Pkt. 10c, ¼ Oz. 25c
Gladstone —Pink with crimson zone.....	Pkt. 10c, ¼ Oz. 25c

Collection No. 12F—One packet each of the above seven varieties, 50c.

A & M Mixed Painted Daisies—All colors. Pkt. 10c, oz. 50c.



Pentstemon

PENTSTEMON

Gloxinioides "Sensation"—The large Gloxinia shaped blossoms vary from pure white, pink, rose and crimson to mauve and purple, including many which are beautifully edged. Hardy perennials Height, 2 feet. Pkt. 15c.

A & M PANSIES

Pansies thrive best in a moist, sunny location and in rich, loamy soil. Seed should be sown in the autumn for early spring blossoms, or can be sown early in the year for good flowers later in the spring. The plants must be transplanted twice in order to get the largest flowers; once from the seed box to a chosen bed, and again to the open garden. This is important for large size pansies; use manure liberally. The blossoms are usually larger in the spring and again in the fall, and while they bloom freely all summer, the blossoms are small during the hot months.

It is much more interesting, satisfactory and inexpensive to grow your own pansies from seed. By so doing you may select and carry out your individual color scheme; you may also select your own types and take advantage of some of the finest varieties the plants of which are not offered for sale.



A & M
Super Maximum
Pansies

A & M Giant French Pansies

Where masses of distinct colors are desired, A & M Giant Pansies will prove of great value.

- Aurora—Pure white. Pkt. 10c.
- Azure Blue—Pale blue. Pkt. 10c.
- Eros—Velvety brown with yellow margin. Pkt. 10c.
- Golden Queen—Pleasing golden center. Pkt. 10c.
- King of the Blacks—Velvety black. Pkt. 10c.
- Lord Beaconsfield—Purple violet; upper petals shading lighter. Pkt. 10c.
- Madam Perret—Lower petals are pale with rich rose color markings. Pkt. 10c.
- Prince Henry—Darkest blue, very large beautiful flower. Pkt. 10c.
- Ruby Red—Very large blooms in striking red shades. Pkt. 10c.

Collection of the Above 9 Varieties for 75c.

A & M Giant French Mixed—A very showy mixture of vigorous compact growth. Fine bedding strain. Pkt. 10c, 1/2 oz. 75c.

PASSIFLORA (Passion Vine)

- Edulis—Perennial climber and rampant grower blossoming freely. The pulp of the fruit is delicious. Pkt. 15c.
- Coerulea—Lovely sky blue flowering climber. Perennial. Pkt. 15c.
- Manicata (Tacsonia)—A striking red flowered form of Passiflora. Pkt. 25c.

PHYSOSTEGIA

Speciosa (False Dragon Head)—Very pretty hardy perennial growing 4-5 feet high. Flowers are of varying shades of pink. Splendid for borders. Pkt. 25c.

A & M Super Maximum

A lovely and distinct strain bearing extra large flowers with long stems that hold them well above the foliage. We introduced this pansy particularly for those who want an extraordinary strain, and we are pleased to recommend them highly. Letters from many friends indicate they are very satisfactory, and our own trials are greatly admired by all who see them. Pkt. 35c, 3 pkts. \$1.00.

America

For those desiring a mixture containing a preponderance of self-colors, this strain is highly recommended. The plants are short and stocky and large flowers are produced from the start. Pkt. 25c.

Greenhouse Special

This mixture of fine pansies, highly recommended for greenhouse or garden, needs no introduction to the florists of Los Angeles, where it has given unbounded satisfaction for several years. Large flowers in the most desirable colors, on long stems. Pkt. 25c.

Swiss Giants

Not quite so large as our Super Maximum but much larger than the ordinary pansy and a selection of many exquisite colors. Pkt. 25c, 1/8 oz. \$1.75.

A & M Mastodon Pansies

A very popular beautiful strain of pansies. They bloom two to four weeks earlier than most strains, produce very large showy flowers and are exceptionally fine for beds, borders and window or porch boxes.

Adonis—Lovely sky blue. Pkt. 20c.

Bronze Mastodon—Very large, with all the different shades from burnished brass to gold, with no two flowers exactly alike. Pkt. 20c.

Improved Beaconsfield—A delightful bluish purple with lavender tinge on upper petals. Pkt. 20c.

Madame Steele—Elks purple, of fine form and enormous size. Pkt. 20c.

Panama Pacific—A huge deep yellow, some have the dark center, some without. A beautiful bedding color. Pkt. 20c.

Parisian Yellow—Beautiful pure yellow. Pkt. 20c.

Rose Shades—Varied shades of rose, white borders. Pkt. 20c.

White Mastodon—Snow white with a large center, very large and beautiful. Pkt. 20c.

Mastodon Mixed—A wonderful collection of rich velvety shades in great variety, with fine long stems. Pkt. 15c, 1/8 oz. \$1.25.



Physostegia



Phlox Drummondii

PHACELIA

Campanularia—Very showy annual with gentian blue bell-shaped flowers. Makes a charming pot plant and is effective for edging. 8 inches. Pkt. 15c.

PHYSALIS FRANCHETII (Chinese Lantern Plant)

This hardy biennial plant grows to a height of about 2 feet and is a profuse bloomer, producing many large striking flowers of a beautiful brilliant orange red color resembling Chinese lanterns in shape. Pkt. 15c.

POLEMONIUM

Coeruleum (Jacob's Ladder)—Popular hardy perennial plant with beautiful bell shaped blue flower and fern-like foliage. Height 2 feet. Pkt. 10c.

PORTULACA (Moss Rose)

Beautiful race of dwarf plants for rock work or dry sunny locations, bearing glossy cup-shaped blossoms in brilliant colors. Annual.

Double Mixed—Saved from the finest flowers only, and will produce a large percentage of doubles. Pkt. 15c.

Single Mixed—Large flowers. Pkt. 10c, 1/2 oz. 35c.



Polemonium

PHLOX DRUMMONDII

One of the most beautiful and easiest grown of our hardy garden annuals. The flowers are produced in large trusses and may be had in many lovely colors. The seed may be sown in boxes and transplanted when danger of frost is over or may later be sown in the open. They make a very effective show when grown in masses or borders.

Large Flowering Grandiflora—A fine type having large heads of bloom and growing 15 inches in height. This variety may be used for cutting.

	Pkt.	1/2 oz.
Scarlet	10c	50c
Yellow	10c	50c
Light Rose	10c	50c
Lilac	10c	50c
Rosy Chamois	10c	50c
White	10c	50c
Grandiflora Mixed	10c	45c

Collection No. 29F—One packet each of the above six named varieties, 50c.

Nana Compacta Dwarf—This type has the large individual blooms of the Grandiflora but the growth of the plant is compact and dwarf attaining a height of 8 inches. Magnificent for parkings and low borders.

Apricot	Pkt. 15c
Chamois Rose	Pkt. 15c
Defiance—Salmon scarlet	Pkt. 15c
Yellow	Pkt. 15c
Dark Purple	Pkt. 15c
White	Pkt. 15c
Nana Compacta Mixed	Pkt. 10c

Collection 27-F—One packet each of the above 6 named varieties for 75c.

Star Phlox—A dwarf variety bearing star shaped blossoms in great abundance. Pkt. 10c, 1/8 oz. 35c.

Perennial Mixed—The bright colored flowers make a pleasing border. Seed is slow in germinating and from fall sowings seedlings will often not show until following spring. Pkt. 25c.



Pyrethrum, Single

PYRETHRUM

Hardy perennials which are easily grown and make handsome plants.

Hybridum—This variety is a tall vigorous grower and flowers freely. The flowers are daisy-like and the colors vary from rose, pink and cream to white; all have yellow centers. They make very desirable cut flowers, keeping well in water. **Single Mixed**—Pkt. 10c, 1/8 oz. 50c.

Double Mixed—Produces a fair percentage of doubles. Pkt. 25c.

Golden Feather—Fine compact habit of growth, with bright yellow foliage, largely used for edgings and ribbon borders. Height, 9 inches. Pkt. 10c.

PRIMULA (Primrose)

Primroses are charming plants which blossom freely during the spring and winter. They are of easy culture and should be sown from March to May and again in July to August for a succession of bloom. All make splendid pot plants and some blossom freely out of doors even during the winter.

Giant Flowered—The beautiful Fringed Chinese and Obconica Grandiflora are large flowered, bloom freely for several months and are one of the very best house plants. We offer only the best seed.

Chinese Fringed Mixed—Pkt. 35c.

Obconica Grandiflora—Pkt. 35c.

Malacoides—A free flowering improved variety of Baby Primrose. They may be planted out of doors or used as pot plants. If planted in August in partial shade they will flower freely during the winter. Flowers a delicate lilac. Pkt. 25c.

Veris, Polyanthus, Mixed—Well known member of the primula family very useful for mass bedding preferring a shady situation. Pkt. 25c.

Auricula, Fine Mixed—Seed saved from the finest varieties covering a wide range of beautiful shades. Excellent for bedding and also valuable for the rock garden. Pkt. 25c.

A & M PETUNIA



Giants of California

A splendid race of plants, rich and varied colors, and profuse flowering with their charming and tender looking flowers, they are very beautiful for groups in the open. Sow seed early in spring, scatter thinly on an even surface and barely cover the seed with sand. If intended for the open ground, plant out into a frame to be kept until planting-out time. If for pots, pot singly into small pots in strong rich soil mixed with sand and shift as the plants grow larger.

In starting Petunia seed it is well to remember the rule that small flower seeds should be planted to a depth of about twice the breadth of the seed itself, which means that these should be merely pressed into the soil and receive a very light covering of sand. A burlap bag placed on top the seed bed will assist in germination. Remove the bag when sprouts appear and keep thoroughly moist. Dust with sulphur to prevent "damping off". When planting out double or ruffled varieties it is advisable to use the smaller plants in preference to the strong ones.

FANCY DOUBLE VARIETIES

Superb Double Fringed Mixed—One of the finest strains of Petunias in existence. The double flowers are very large, full and symmetrically formed, having the edges of the petals beautifully fringed. Pkt. 50c.

Carnation Flowered—Medium growing variety and very floriferous. The exquisite carnation like flowers range from light pink to deep rose. Excellent for pot culture as well as open ground. Pkt. 50c.

RUFFLED AND FRINGED VARIETIES

Theodosia—Very fascinating fringed petunia of a soft rose pink, beautifully veined. Pkt. 50c.

Fimbriata Coerulea—Steel blue in color and very attractively and deeply fringed. Pkt. 50c.

Copper Rose—Extremely attractive color and a distinctly new shade in the Ruffled Giants. Pkt. 35c.

Romany Lass—Very striking color of deep crimson with striped purple throat; ruffled. Pkt. 35c.

Pink Triumph—Elegant large flowers of a clear pink and delicately fringed; very attractive. Pkt. 35c.

Giants of California—A magnificent strain of ruffled and fringed petunias producing an array of glorious colors which will be appreciated by all growers of petunias. Pkt. 25c.

Giants of California, Yellow Throated—A specially reselected mixture of Giant Fringed. The flowers are large and ruffled in pleasing light shades, all having yellow throats. Pkt. 25c.

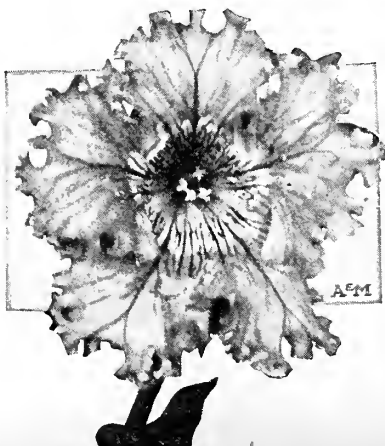
Ruffled Giants—A beautiful, deep throated new strain with flowers that are ruffled, fluted and fringed. Solid intense colors. Pkt. 20c.

New Dwarf Giants—This is by far the best strain for pot culture. The plants are compact, bearing large, colorful flowers with open throats well marked and veined. Pkt. 40c.

PETUNIA COLLECTION

No. 31-F—\$1.00

One packet each of Romany Lass—deep crimson; Fimbriata Coerulea—steel blue and, Pink Triumph—clear pink. A very choice selection of ruffled and fringed varieties.



Theodosia

STANDARD BEDDING VARIETIES

Elk's Pride—Largest and darkest velvety purple petunia. Magnificent variety with plain edge. Pkt. 25c.

Nana Erecta Rosy Morn—Of the same compact growth as Nana Erecta Snowball, but of lovely pink color with contrasting white throat. An improved strain. Pkt. 20c, 1/8 oz. 50c.

Nana Erecta Violacea—A new strain. This is a fine deep violet, the texture of flower is like velvet and the plant growth erect and compact, like all of this class. Pkt. 20c, 1/8 oz. 50c.

Nana Erecta Snowball—The plants are erect and compact and are specially adapted for borders. The flowers are large in constant bloom. Pkt. 15c, 1/8 oz. 40c.

Lord Courtenay—A fine brilliant rose color with yellow throat. One of the finest varieties we offer. The flowers are large and showy and produced abundantly on large sturdy plants. Pkt. 15c.

Howard's Star Improved—Large velvety purple with a white star. Makes a very striking and attractive bed or border. Pkt. 15c, 1/8 oz. 50c.

General Dodds—A rich, blood red; this is a fine color. The flowers are large and erect and the plants large and free blooming. Pkt. 10c, 1/8 oz. 30c.

Collection No. 35-F—One packet each of above 7 varieties, 85c.

Grandiflora Single Mixed—Exceedingly handsome and free flowering, containing the greatest variety of colors, yellow throated, veined and blotched. Very large flowers. Pkt. 15c, 1/8 oz. 35c.

Hybrida Fine Mixed—A good Petunia for massing in beds and borders, yielding a profusion of brilliantly marked flowers. Pkt. 10c, 1/4 oz. 35c.

BALCONY PETUNIAS

Used extensively in California for training up on lattice-work, fences, etc. In the Los Angeles City parks they have been used very effectively as pillars, standing 5 to 7 feet high. Balcony Petunias are a large free flowering type and they make a gorgeous display over a long season. May be used also for window boxes and large vases.

Balcony Blue—Deep velvety.....Pkt. 20c

Balcony Rose—Deep rose.....Pkt. 20c

Balcony Crimson.....Pkt. 20c

Balcony White.....Pkt. 20c

Collection No. 30F—One packet each of the above four named varieties, 65c.

A & M POPPIES

The different varieties of poppies are always favorites for outdoor display and the cultivation of them being so extremely simple entitles them to a place in every garden. Seed should be sown where the plants are intended to flower, because it is difficult to transplant them with any measure of success. Thin to 12 inches apart and give plenty of water just before buds appear.

In California, October to March is the best planting season. Poppies cut in the bud will open and make beautiful bouquets.

NEW TALL DOUBLE POPPIES

A & M Giant Ebelle—Salmon shades—magnificent poppy similar to double peony in form and bearing huge flowers of salmon shades. We consider this one of the finest double annual poppies yet offered. Pkt. 20c, 1/4 oz. 35c.

A & M Giant Ebelle White—Flowers a beautiful white, otherwise similar to the preceding variety. Pkt. 15c, 1/4 oz. 35c.

Double Carnation Flowered Poppies

Flowers are very double, ball-shaped and well fringed, the plants grow 3-4 feet high bearing blooms of brilliant colors making a grand garden display. Annual.

	Oz.	Pkt.
Cherry Red	\$.40	\$.15
Salmon Pink .....	.40	.15
Bright Rose .....	.40	.15
Plum Violet .....	.40	.15
Shell Pink .....	.40	.15
Vermillion Red .....	.40	.15
Carnation Flowered Mixed .....	.30	.10

Collection No. 40-F—One packet each of the above six named varieties for 75c.

Double Paeony Flowered Poppies

This strain of double poppy differs from the Carnation flowered in that the flowers are oval in shape and the petals are plain edged. They make a glorious showing. Annual 3-4 feet.

	Oz.	Pkt.
Cardinal Red	\$.40	\$.15
Brilliant Rose .....	.40	.15
Shrimp Pink .....	.40	.15
Paeony Mixed .....	.30	.10

Collection No. 41-F—One packet each of the above three named varieties for 40c.



A & M Giant Ebelle Poppy



Single Shirley Poppy

Perennial Poppies

Oriental Hybrids Mixed—These tall stately Poppies have immense flowers in the most gorgeous colors. Height 2 1/2 ft. Our seed has been saved from the choicest new hybrids. Pkt. 10c.

Nudicaule, Iceland Poppy—A beautiful class of perennial poppies. Sow in March and they will flower the same year. The beautiful large blossoms are borne on wire-like stems above the fern-like foliage, with a great variety of colors. The Iceland Poppy has more lasting qualities as a cut flower, than any other poppy.

Single Mixed—Pkt. 10c. Double Mixed—Pkt. 25c.

A & M Australian Hybrids—This new type of Iceland Poppies introduced from Australia contains many beautiful shades of light pink through to orange. The stems are stiff and carry the huge flowers to perfection. Good for cutting. Pkt. 25c.

El Monte—A delightful poppy extensively grown by florists. The large petals of tangerine orange on long stiff stems makes it a very useful cut flower. Pkt. 25c.

Single Annual Shirley

The most charming poppy in cultivation. The blossoms are bright and snowy and include an almost endless variety of colors, from pure white, pink, terra cotta, salmon, chamois and rosy carmine, to brilliant crimson, many of the flowers being beautifully flaked or edged with white.

Rose Pink—A fine large flower. Pkt. 10c, 1/2 oz. 35c.

Picotee—White cup, scarlet edged. Pkt. 10c, 1/2 oz. 35c.

A & M Shirley—Fine mixed. Pkt. 10c, oz. 30c.

Flanders Poppy—The famous poppy of Flanders Field. A single annual of blood red color. Abundant in the fields of Europe. Pkt. 10c, 1/4 oz. 25c.

Tulip Poppy (Glaucum)—Resembles the tulip in form. Color a dazzling scarlet and very effective for beds or masses. Pkt. 10c, 1/4 oz. 25c.

American Legion—A grand new poppy. The color is brilliant orange scarlet with yellow anthers. The flowers are three times the size of the ordinary Shirley Poppy. They grow about 2 to 3 feet high and should be planted where they are to flower. They give the best effect when grown in masses or beds. Pkt. 10c, 1/4 oz. 25c.

Double Annual Shirley

Eldorado Double Shirley—A new and lovely variety of Shirley poppies in a variety of wonderful colors. Each flower has many full petals giving the double appearance. A bed of these poppies would be a delight to any lover of flowers. Pkt. 10c, 1/4 oz. 25c.

Ranunculus Flowered—This variety of double Shirley was so named because of its resemblance to Ranunculus. It is a lovely flower and keeps well in water if cut before buds are fully opened. Pkt. 10c, 1/4 oz. 30c.

RANUNCULUS

Giant French Mixed—This very popular flower may be grown readily from seed though home gardeners have usually grown them from bulbs. The seed should be sown in good sandy loam, covered lightly with sand and kept moist. May be planted from early fall to January and will flower the first season from seed. Our mixture is a very fine semi-double strain and contains a splendid range of colors. Pkt. 25c, ¼ oz. 75c.

RHODANTHE

Maculata Rosea — One of the most attractive everlasting flowers. The flowers hang like little bells on the stems and make a dainty cut flower either fresh or dried. Pkt. 10c.

RICINUS (Castor Oil Plant)

Effective for semi-tropical garden. Easily raised from seed, and should be grown in deep rich soil.

Gibsoni—Deep red foliage; 5-6 feet. Pkt. 10c, oz. 25c.

Red Spire—Enormous spikes of brilliant rosy salmon flowers; pretty bronzy-green foliage; 6-7 feet. Pkt. 10c, oz. 25c.

Sanguineus—Blood red stalks and red fruit. Height 8 feet. Pkt. 10c, oz. 25c.

Zanzibarlensis—The giant type of the Castor Bean. Foliage varies in shades of color during the different stages of growth. Very suitable as a windbreak. Pkt. 10c, oz. 25c.

Mixed Varities—Pkt. 10c, oz. 25c.

ROMNEYA COULTERII (Calif. Tree Poppy)

Also well known as the Matilija Poppy; perennial. It is of value as a cut flower, lasting well in the water, and its delicate primrose-like perfume is most acceptable. Flowers are four to five inches across, pure white, with a fine bunch of yellow stamens, resembling white, single Paeonies. Pkt. 15c.

RUDBECKIA

Bicolor Superba—These hardy annuals are of easy culture and produce an abundance of flowers. The flowers have a cone in the center surrounded by yellow and brown petals. These bright flowers are borne gracefully on long stems, and are especially recommended for cutting. Pkt. 10c, ¼ oz. 30c.

SALVIA (Scarlet Sage)

A tender perennial blooming the first year from seed. They make gorgeous plants, the brilliant red blossoms are borne on long stems in racemes or spikes and are displayed with striking effect against the deep green foliage.

Splendens—Height 3 feet. Pkt. 10c, ⅛ oz. 50c.

Bonfire—Compact bush 2 feet in height. Pkt. 10c, ⅛ oz. 50c.

SALVIA FARINACEA

A hardy perennial. The spikes of bright light blue flowers rise above the foliage in an almost continuous mass of bloom. The flowers are excellent for cutting and the plants may be used for beds, borders, or as specimen plants among shrubs. Pkt. 15c.

SALVIA AZUREA

A beautiful hardy perennial producing spikes of pretty sky blue flowers in great profusion. Height 2-3 feet. Pkt. 15c.



Saponaria—Vaccaria White



Salpiglossis

A & M SALPIGLOSSIS
Painted Glories

Highly ornamental half-hardy annual with large veined, funnel-shaped flowers; much prized for cutting; very showy in beds or border. A bed of these beautiful plants is one of the most striking features of the garden during June, July and August. Salpiglossis may be had in separate colors as well as mixed and very wonderful effects are possible with either one color or a combination of two or three of these separate varieties.

Brown and Gold	Pkt. 15c
Velvety Red	Pkt. 15c
Velvety Violet	Pkt. 15c
Crimson and Gold	Pkt. 15c
Light Blue and Gold	Pkt. 15c
Rose and Gold	Pkt. 15c
Scarlet and Gold	Pkt. 15c
Violet and Gold	Pkt. 15c
Primrose	Pkt. 15c
Faust Black	Pkt. 15c
Yellow and White	Pkt. 15c

Collection No. 32-F—One packet each of the best six varieties 75c.

Superbissima Mixed—Containing many lovely color combinations. Pkt. 10c, ¼ oz. 35c.

Gloxiniiflora Mixed—A special selection. The flowers are large and fantastically veined. Pkt. 15c, ¼ oz. 45c.

SAPONARIA

Ocymoides—Showy trailing perennial producing pretty rose-colored flowers suitable for rockeries. 9 inches. Pkt. 10c.

Vaccaria Rosea—The light graceful sprays of this annual are invaluable for vases, especially in arrangement with other cut flowers. Sowings should be made in succession for a continual supply of flowers. Height 2 feet. Pkt. 10c.

Vaccaria Alba—White. Pkt. 10c.

SCARLET RUNNER

A variety of climbing bean having rich scarlet blooms and most useful for decorative purposes in covering arbors and unsightly structures. The pods are also appreciated as an addition to the vegetable list. Pkt. 10c.



Scabiosa—Giant Loveliness

A & M SCABIOSA

Large Flowering Annual Varieties

Mourning Bride, Pin Cushion—An old garden favorite and which has been much improved recently.

The flowers are large and vary from a lovely light blue to deepest red. They are borne on long graceful stems and produce abundantly from spring until autumn. They are especially recommended for cutting. Sow seed in boxes and transplant or sow in open ground after frost is over, and thin to 15 inches apart. Height 3 to 4 feet.

Giant Loveliness—A glorious new color in annual Scabiosa, the blossoms ranging through varying shades of soft delicate salmon rose. One of most beautiful ever introduced. Pkt. 25c.

	Pkt.	1/4 oz.
Ageratum Blue—Medium blue.....	10c	30c
Azure Fairy—Light blue.....	10c	30c
Black Prince—A deep red.....	10c	30c
Flesh Color—A soft flesh pink.....	10c	30c
Fiery Scarlet—A brilliant color.....	10c	30c
Peach Blossom—Very large light pink.....	10c	30c
Rose—Soft Rose.....	10c	30c
Shasta—Wonderful pure white.....	10c	30c
Yellow—Light yellow.....	10c	30c
Collection No. 34-F—One packet each of five varieties for.....	35c	
Mixed—A mixture of all shades.....	10c	25c

Hardy Perennial Scabiosa

Perennial Scabiosa are highly decorative and invaluable for cutting, lasting a long time in water. Seed should be planted in the fall for preference, but if sown in early spring the plants will bloom the first season. Height from 2-3 feet.

Isaac House Hybrids—This new hybrid strain is a great improvement over the Caucasica variety. The flowers are large with ruffled petals and range in color from white to darkest blue—lilac and mauve predominating. Pkt. 25c.

Columbaria Pink—Flowers of this beautiful new scabiosa are 2-2½ inches across borne on long slender stems. The attractive pink shades are decidedly novel in a perennial scabiosa. Pkt. 25c.

Columbaria Lavender—Similar to above but flowers dainty lavender shade. Pkt. 25c.

Caucasica—The plants grow 2-2½ feet high and produce handsome flowers 3-4 inches across in a soft lavender or heliotrope shade. Pkt. 20c.

Japanica—A variety from Japan bearing large lavender blue flowers in great profusion. Height 3 ft. Pkt. 10c.

SCHIZANTHUS

Very beautiful and interesting annuals. This is one of the easiest annuals to raise from seed. Sow in open where plants are to flower. Exceptionally beautiful when in full bloom and literally covered with small orchid-like flowers. When 4 inches high remove the points to induce the plant to bush.

Grandiflora Mixed—Pkt. 25c, 1/8 oz. 75c.
Wisetonensis Excelsior—Exceptionally large flowered mixture. Pkt. 25c, 1/8 oz. 75c.

SENSITIVE PLANT

An interesting plant, the leaves of which close when touched; elegant foliage; flowers pink. Pkt. 10c.

SHASTA DAISY

See Daisy.

SIDALCEA

Rose Queen—Graceful perennial with hollyhock-like flowers. Suitable for sunny borders. Flowers are a bright rose pink. Height 2-3 feet. Pkt. 15c.

SILENE (Catchfly)

Pendula—Bright double rose colored flowers produced in great abundance on dwarf compact plants. Very excellent for borders, masses and recommended for carpet bedding on bulb beds. Annual; 10 inches. Pkt. 10c, oz. 25c.

Armeria Rose—Sweet-scent large heads of deep rose flowers, splendid for cutting. Annual; 18 inches. Pkt. 10c, oz. 30c.

Schafta—Very useful autumn border or rock plant with bright pink flowers. Perennial 4-6 inches high. Pkt. 15c.

SMILAX

A perennial vine which thrives best in shady location. Very useful for decorative purposes. Pkt. 15c, oz. 75c.

SNAPDRAGON

See Antirrhinum.

SOLANUM

Capsicastrum Nanum (Jerusalem Cherry) — An ornamental shrub with bright red berries. Very useful for pots for winter decoration. Easily grown. 2 feet. Pkt. 10c, oz. 75c.

Clevelandi (Cleveland Cherry)—Similar to above but dwarfier in habit and produces more berries. Very ornamental. Height 1 foot. Pkt. 15c, 1/2 oz. 75c.

STACHY'S LANATA (Lamb's Ear)

Very striking silvery leaved plant, useful for edgings and rock gardens. A robust grower withstanding heat and drought. Hardy perennial. Height 6 inches. Pkt. 25c.



Schizanthus

A & M STOCKS

The Stock is one of the many popular plants used for bedding. For brilliancy and diversity of color, fragrance and duration of bloom it is unsurpassed. Sow the seed in pans or boxes and transplant when large enough to an open, sunny location. When transplanting take the plants as they come and do not pick out the large ones. It is also a good idea to plant rather thickly so that the single can be weeded out as they appear. Stocks are one of our best winter blooming plants. May be planted from August to March for a succession of winter and summer bloom.

A & M Bismarck Stocks

This wonderful new strain of Stocks is of branching habit, making it possible to break long branches of flowers from the main stalk without injuring or destroying the beauty of the plant. The flowers are large and many of them on a stem. The sweet perfume of the Stocks make them most desirable for garden or for vases and the A & M Bismarck is the very latest improvement.

Bismarck Antique Copper—Hellebore red.....	Pkt. 25c
Bismarck Apple Blossom—Blush.....	Pkt. 25c
Bismarck Chamois—Ivory, tinted rose.....	Pkt. 25c
Bismarck Dark Blue—Near purple.....	Pkt. 25c
Bismarck Fiery Blood Red—Bright red.....	Pkt. 25c
Bismarck Golden Ball—Golden yellow.....	Pkt. 25c
Bismarck Golden Rose—Light golden rose.....	Pkt. 25c
Bismarck Lavender—Light Lavender.....	Pkt. 25c
Bismarck Lilac—Dark Lavender.....	Pkt. 25c
Bismarck Old Rose—Lovely shade of old rose.....	Pkt. 25c
Bismarck Purple King—Dark purple.....	Pkt. 25c
Bismarck Rose—Deep Rose Pink.....	Pkt. 25c
Bismarck White—Pure White.....	Pkt. 25c
Collection No. 33F—One packet each of six selected separate colors, \$1.10.	
A & M Bismarck Mixed—All colors.....	Pkt. 25c, 1/8 oz. 65c

Early Mammoth Branching Nice

This type is excellent for bedding and borders and is splendid for cutting. We offer fine varieties in separate colors and a choice mixture. Height 18 inches.

Giant American Beauty (Rose Pink).....	Pkt. 15c
Giant Carmine Rose (Abundance)—Large spikes.....	Pkt. 15c
Giant Old Rose (Belle of Naples).....	Pkt. 15c
Giant Chamois and Rose (Golden Sheaf).....	Pkt. 15c
Giant Light Blue (Cote d'Azur).....	Pkt. 15c
Giant Canary Yellow (Monte Carlo).....	Pkt. 15c
Giant White (Mount Blanc).....	Pkt. 15c
Giant Flesh Pink (Beauty of Nice).....	Pkt. 15c
Giant Dark Blue (Summer Night).....	Pkt. 15c
Giant Rosy Lilac (Queen Alexandria).....	Pkt. 15c
Giant Crimson King.....	Pkt. 15c
Collection 42F—One packet each of six selected separate colors, 75c.	
Giant Nice—Finest Mixed. Pkt. 15c, 1/8 oz. 50c.	



A & M Bismarck Stocks

Perpetual Branching

Giant Perfection—This type is of branching habit with long stems, making it very desirable for cutting. The percentage of double is high. Height 2 feet.

Blood Red.....	Pkt. 10c	Deep Purple.....	Pkt. 10c
Rose Pink.....	Pkt. 10c	Flesh Pink.....	Pkt. 10c
Lilac.....	Pkt. 10c	White.....	Pkt. 10c
Heatham Beauty—Rose shaded terra cotta.....	Pkt. 10c		
Mixed.....	1/8 oz. 50c, Pkt. 10c		

Collection 44-F—One packet each of the above seven separate colors, 55c.

Large Flowering Ten Weeks Stocks

A & M Brilliant Mixed—Wonderful strain for bedding. Pkt. 10c, 1/4 oz. 50c.

STATICE

Sinuata—An everlasting flower which is increasing in popularity. The plants throw large sprays of flowers which may be dried and make fine winter bouquets. It may be planted both in the spring and late summer. The seed should be kept quite moist until germinated.

	Pkt.	Oz.		Pkt.	Oz.
Blue.....	10c	60c	Rosea Superba.....	10c	60c
Bright Yellow.....	10c	60c	White.....	10c	60c
			Mixed.....	10c	35c

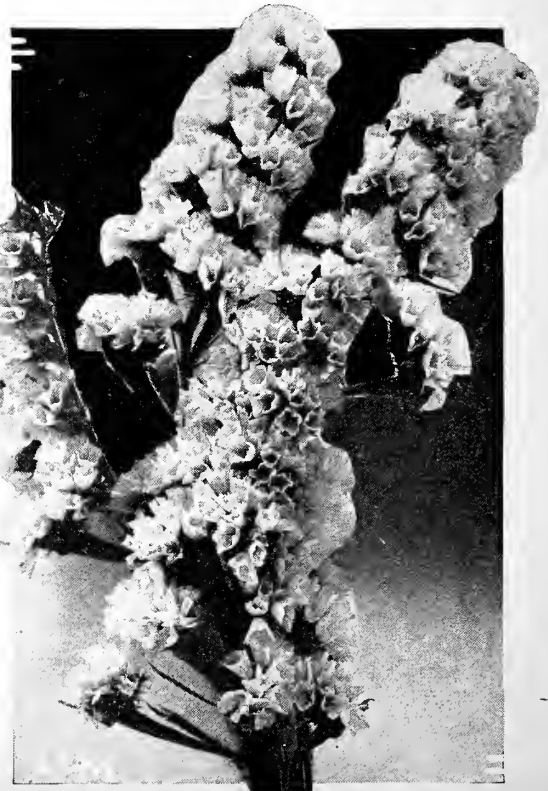
Caspia—A lovely variety having blue minute flowers borne in long sprays, which is much used to mix with other flowers because of its dainty graceful effect. Is a hardy perennial flowering during the summer and early fall. Pkt. 10c.

Latifolia—This variety produces large branching sprays of minute lavender-blue flowers that are invaluable for cutting. May also be dried and used with everlasting flowers. A perennial. Pkt. 10c.

Perezii—A hardy perennial. The leaves are large and glossy and the flower stalk grows to a height of 2 feet or more above the leaves and is crowned with a mass of small violet blue flowers. This variety is popularly grown among shrubbery and as specimen plants. Pkt. 10c, 1/4 oz. 40c.

STEVIA

Serrata—Small fragrant white flowers borne in large heads which are valuable for cutting. A free blooming perennial of easy culture. Pkt. 10c.



Statice—Sinuata

SUNFLOWER (Helianthus)

Stately, hardy, annuals of easy culture. Useful for background or as a fence and often grown for the seed. Height, 6 to 8 feet.

Maroon Prince—A dwarf strain of dark red Sunflower. It is true Maroon in color and makes a striking decoration for large vases. Pkt. 10c, ¼ oz. 50c.

Extra Dwarf White Seeded—Very dwarf growing variety. The chrysanthemum like flowers are golden yellow in color. Pkt. 10c, oz. 50c.

California Double—Large, massive, bright yellow flowers, height 6 feet. Pkt. 10c, oz. 50c.

New Red Sunflower—The plant is of a freely-branching habit with well-shaped dark-centered flowers of bright chestnut red, merging to a yellow at the tips of the petals. Height 6 feet, Pkt. 10c, oz. 50c.

Mammoth Russian—Is planted largely for seed. It also makes a good windbreak and a very ornamental background. Requires little attention. Pkt. 10c, lb. 25c.

Autumn Glory—The flowers are about 2 inches in diameter with bright yellow petals and a dark center. The plant grows about six feet tall and branches like a giant cosmos. During September and October each plant is a gorgeous mass of bloom. When the plant has finished blooming cut away the old stalks and in the winter the new growth will start from the old roots again. Seed may be planted in the fall or spring. Pkt. 10c, ¼ oz. 50c.



Sweet William—Single

STOKESIA (Cornflower Aster)

Cyanea—A very comely perennial growing about 2 feet tall, and bearing handsome lavender blue cornflower-like blooms in profusion. Flowers from midsummer until frost. Good cut flower. Pkt. 10c, ⅛ oz. 50c.

SWEET WILLIAM (Dianthus Barbatus)

A hardy perennial blooming the second year from seed. Grows one to two feet high and bears its flowers in clusters at the end of a stiff stem. The individual flowerets are handsomely colored and marked. It makes a beautiful bedding plant, and is of easy culture.

Pink Beauty—Very dainty. Pkt. 10c, ¼ oz. 25c.

Scarlet Beauty—Elegant for massing. Pkt. 10c, ¼ oz. 25c.

Single Mixed—Very attractive. Pkt. 10c, ½ oz. 25c.

Double Mixed—Pkt. 10c, ¼ oz. 35c.

Annual Single Mixed—A fine mixture blooming the first year from seed. Pkt. 10c, ¼ oz. 50c.

TAGETES

Signata Pumila—Very profuse blooming, compact, bushy annual Marigold with pretty fern-like leaves. The flowers are bright golden yellow. Fine bedder. Height 9 inches. Pkt. 10c.

THALICTRUM

Dipterocarpum—The foliage somewhat resembles that of the Columbine and the large feathery heads of lilac rose flowers are borne on long stems above the foliage. They bloom through the summer and attain a height of about 4 feet. An excellent perennial. Pkt. 25c.

THUNBERGIA (Black Eyed Susan)

A free blooming annual climber with attractive green foliage. It is also used extensively in hanging baskets, window boxes, etc. The flowers are small in varied colors of yellow, orange and white with black eyes. Finest mixed. Pkt. 10c.

TORENIA

Fournieri—This densely blooming annual is suitable for beds or hanging baskets. The plants are covered throughout the season with sky blue flowers somewhat resembling snapdragons. Height 1 foot. Pkt. 15c.

TRACHELIUM

Coeruleum—A vigorous growing annual with flowers that can be described as globes of tiny Gypsophila-like florets in mauve color. Height about 2 feet. Does well as a pot plant. Pkt. 25c.

TRITOMA

A & M Luminous Hybrids—Sometimes called Red Hot Poker. Flowers range in color from deep yellow to coral, orange and scarlet with some very striking combinations. Easily grown from seed by planting in flats and keeping thoroughly moist until germinated. Transplant when three or four leaves are formed. Pkt. 35c.

TUNICA SAXIFRAGA

An exceedingly pretty plant for rock gardens. The tiny star-like pale pink flowers are produced profusely the whole summer on rounded clumps. Hardy perennial; 1 foot. Pkt. 15c.

ROCK GARDENS

Write for Our Free Circular on Rock Gardens

Throughout the flower seed pages will be found listed numerous rock garden plants and below will be found a summary of these together with other garden plants suitable for the purpose.

Annuals

Abronia—Trailing plant with Verbena like flowers.

Alyssum—Little Gem.

Anagallis—Height 6 inches.

Browallia—Rich blue flowers. Stands considerable cold; 18 inches.

Gamolepis Tagetes—Attractive orange flowers.

Leptosiphon—Flowers are very showy.

Mesembryanthemum Crystallinum—Ice plant, white flowers.

Nemophila—(Baby Blue Eyes).

Portulaca—(Moss Rose).

Viola—(Tufted Pansies).

Perennials

Agathea—Blue marguerite-like flowers.

Alyssum—Saxatile Yellow, height 1 foot.

Arabis Alpina—(Rock Cress) 6-12 in. Fine white flowers.

Armeria—Flowers rose pink.

Aubrietia—Varied colors. Trailing.

Bellis Perennis—Well known English Daisy.

Candytuft Gibraltaria—Lilac flowers.

Cerastium Biebersteinii—Pretty narrow white foliage.

Cheiranthus Allioni—Orange flowers.

Dianthus Deltoides—Crimson flowers.

Dianthus Caesius—Rosy pink.

Erigeron—Mauve blue with yellow centers.

Forget-Me-Not—Suitable for moist situations.

Helianthemum Mutabile—(Rock or Sun Rose) Small rose-like flowers in varied colors; 8-12 inches.

Heuchera—Height 1½ feet, crimson flowers.

Kenilworth Ivy—Little trailing plant.

Linum Perenne—(Blue Flax), attractive blue flowers.

Nepeta Mussini—Aromatic plant with lilac blue flowers.

Polemonium—Bell shaped blue flowers, height 2 feet.

Petunia—(Balcony varieties), separate colors, of blue, rose, crimson, and white.

Saponaria Ocymoides—Trailing plant with rose colored flowers.

Silene Schafta—Bright pink flowers; 4-6 inches.

Stachys Lanata—Striking silver leaved plant.

Tunica Saxifraga—Tiny star-like pink flowers.

Verbena Venosa—Flowers rich rosy purple.

CALIFORNIA SWEET PEAS

Ask for Sweet Pea Culture, Bulletin No. 11

Sweet Peas are a particular pride of California. . Hundreds of acres may be seen in solid fields in the seed producing sections and they are a beautiful sight to behold. Grown under ideal climatic conditions the seed is generally recognized as being superior in high percentage of germination and extraordinary vitality. Magnificent flowers borne on long stems predominate in the best varieties introduced from the Golden State, and without exception they please the most discriminating growers and Sweet Pea enthusiasts. From the hundreds of varieties in commerce we have colored ourselves to what we consider the most outstanding sorts covering a complete range of color.

A & M Early Superflora Spencer Sweet Peas

A & M EARLY SUPERFLORA SPENCER SWEET PEAS are noted for the extraordinary substance of the blooms and on this account are preferred above all others by the large commercial growers of cut flowers. They are EARLY FLOWERING and come into bloom at least one month earlier than the Late or Standard Spencer. For this reason they are particularly suitable for sowing in August and September for early fall and Christmas blooming. However, the planting season in California extends from August 1st until January with a resultant wealth of bloom throughout the spring and early summer.

FOR BEST RESULTS INOCULATE SWEET PEA SEED BEFORE SOWING WITH McQUEEN'S INOCULATOR. Pkt. 15c.
IF A JELLY TYPE OF INOCULANT IS PREFERRED WE RECOMMEND NOD-O-GEN. Bottle 25c.

New and Distinctive Varieties

A & M GLOW—Glorious new duplex Sweet Pea in a resplendent bright rose color. The flowers are phenomenally large, daintily frilled and usually borne four to the stem. Very vigorous grower. Pkt. 25c.

APOLLO—Soft appealing shade of salmon cerise. The flowers are unusually large, nicely waved and carried on stems of exceptional length. Pkt. 25c.

BLUE BONNET—An extra large, fine deep blue without the slightest trace of mauve. It has long stems with four blossoms to the stem. Pkt. 25c.

EARLY DUPLEX GEM—Dainty rose-pink on cream ground. The blossoms are beautifully duplexed and are produced four on a stem. Pkt. 25c.

EARLY DUPLEX PIONEER—Vines are of vigorous growth, producing frequently four beautifully duplexed flowers on one stem. Color is rose pink on cream ground. Pkt. 25c.

FORTYNINER—Large and bold flowers of a glorious bright true orange shade. Pkt. 25c.

MAJESTIC ROSE—An immense deep brilliant rose pink of the popular Zvolanek's Rose color but a richer, deeper tone. Very vigorous and long stemmed. Pkt. 25c.

MRS. HERBERT HOOVER—Bright clear medium blue on long sturdy stems. One of the finest blues yet introduced. Pkt. 25c.

ORIENTAL—Flowers are a deep clear cream of enormous size on exceptionally long stems. Pkt. 25c.

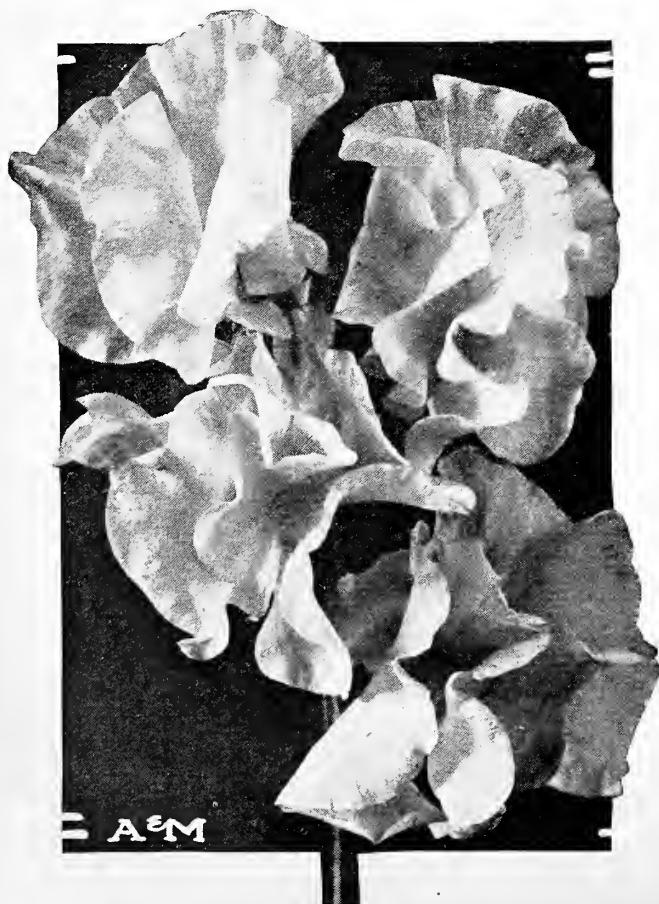
SUNRAY—Very long stemmed variety bearing exceptionally large well frilled blooms of a warm cerise slightly suffused orange. A very fine sort. Pkt. 25c.

VALENCIA—Bright sunproof orange of soft tone. Has immense vigor in growth of good length of stems and bears fine large blooms. Pkt. 25c.

VOGUE—Beautifully waved and of a lovely lavender shade—somewhat bluer in tone than Harmony. Has a rich perfume. Pkt. 25c.

Collection 46-F—One packet each of five of the above new distinctive varieties (your selection) for \$1.00.

SATIN ROSE—An exquisite blend of rose and amber with a touch of salmon—a beautiful combination of colors. The flowers are large and perfect in form. Pkt. 50c.



Duplex Gem

General List

- AMETHYST**—Light purple. Very finePkt. 15c, 1/2 oz. 35c
AVIATOR—Dazzling crimson scarletPkt. 15c, 1/2 oz. 35c
BLUE BIRD—Violet blue. Extra large
 and one of the finestPkt. 15c, 1/2 oz. 35c
BRIGHT LIGHT—Flaming scarletPkt. 15c, 1/2 oz. 35c
COLUMBIA—Salmon rose with white wings .Pkt. 15c, 1/2 oz. 35c
EARLY MAMMOTH ROSE—Immense
 rose pinkPkt. 15c, 1/2 oz. 35c
GLITTERS—Cerise. One of the most
 popular for all purposesPkt. 15c, 1/2 oz. 35c
GRENADIER—Dazzling scarlet. New
 and extra finePkt. 25c, 1/2 oz. 45c
HARMONY—Finest lavender to date.
 Strong grower, extra large flowers
 and exceedingly long stemsPkt. 15c, 1/2 oz. 35c
HERCULES—Florist pink. Extra large
 strong grower, fine stemPkt. 15c, 1/2 oz. 35c
ILLUMINATION—Salmon cerise. A
 popular favorite. GoodPkt. 15c, 1/2 oz. 35c
MICHIGAN—Giant lavenderPkt. 15c, 1/2 oz. 35c
MISS LOUISE GUDE—Brilliant pink. Fine
 exhibition and commercial varietyPkt. 15c, 1/2 oz. 35c
MRS. CALVIN COOLIDGE—Fine rich
 salmon pinkPkt. 15c, 1/2 oz. 35c
NEW BLUE—A splendid bluePkt. 15c, 1/2 oz. 35c
OTHELLO—Maroon. Strong grower,
 large flowers and good long stemPkt. 15c, 1/2 oz. 35c
PERFECTION—Rose. Good strong
 grower with fine flower and stemPkt. 15c, 1/2 oz. 35c
PINK CHARM—Very dainty light rose
 pink. Extra fine for floristsPkt. 15c, 1/2 oz. 35c
ROSE CHARM—Large bright rosePkt. 15c, 1/2 oz. 35c
SNOWSTORM—Improved pure whitePkt. 15c, 1/2 oz. 35c

Early Superflora Spencer Sweet Peas--Continued

SPRINGSOING—Light rose suffused salmon..Pkt. 15c, ½ oz. 35c
THE BEAUTY—Fiery rose. No other color just like this onePkt. 15c, ½ oz. 35c
TORCH—Salmon orange. A fine sweet pea in every wayPkt. 15c, ½ oz. 35c
VULCAN—Vivid scarlet. A flower with some life to it. GlisteningPkt. 15c, ½ oz. 35c
WHITE ROSE—Large pure white; long stem.Pkt. 15c, ½ oz. 35c
ZVOLANEK'S ORANGE—Medium orange .. Pkt. 15c, ½ oz. 35c
ZVOLANEK'S ROSE—Giant rose pink. vigorous, extra large flowers and exceedingly long stemsPkt. 15c, ½ oz. 35c

A & M EARLY SUPERFLORA SPENCER MIXED—A well balanced mixture of many fine varieties including some of the late introductions and improved strains. Plant one ounce to a 30-ft. row. Pkt. 10c, ½ oz. 25c, oz. 45c, ¼ lb. \$1.35, lb. \$4.50.

SPECIAL VALUES IN SWEET PEA COLLECTIONS

Rainbow Collection No. 1

6 packets of Early Superflora Spencer and 1 packet McQueen's Culture, 65c
 One packet each—Harmony, Illumination, New Blue, Snowstorm, Vulcan, Zvolanek's Rose.

Rainbow Collection No. 2

10 packets of Early Superflora Spencer and 1 packet McQueen's Culture, \$1.00
 One packet each—Amethyst, Aviator, Blue Bird, Columbia, Harmony, Hercules, Illumination, Othello, Snowstorm, Zvolanek's Rose.

Standard Giant Spencers For Spring and Summer Blooming

The Giant Spencers listed below are particularly recommended for spring and summer blooming and will thrive in any climate where other sweet peas will grow.

This strain of Sweet Peas bears three and four very large flowers on long, stiff stems. Many of the flowers are ruffled and wavy and the great assortment of shades makes them a remarkable strain for all purposes.

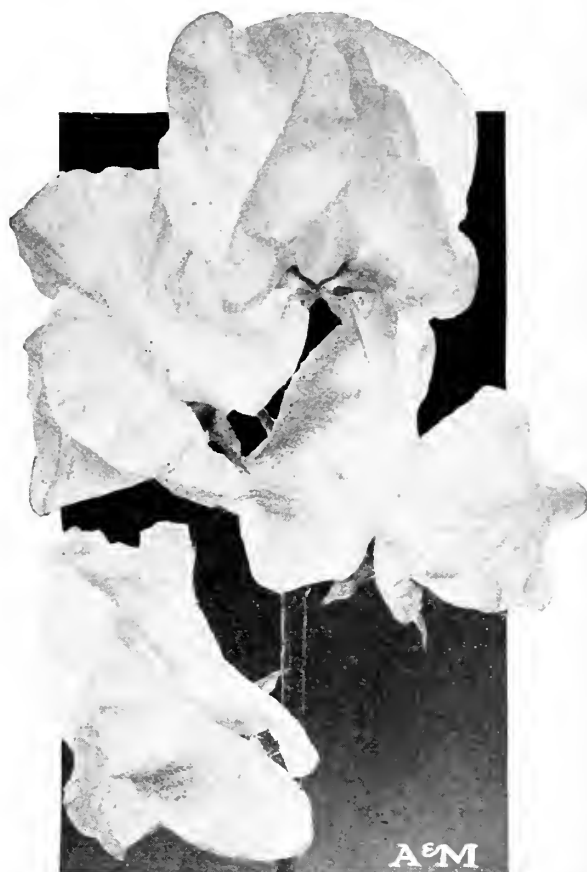
AVALANCHE—Glistening white of great substancePkt. 10c, Oz. 40c
BONFIRE—Cherry pink, cream wingsPkt. 10c, Oz. 40c
BRILLIANT ROSE—Tyrian rosePkt. 10c, Oz. 40c
CHARMING—Rose Cerise. Refined shade and splendid formPkt. 10c, Oz. 40c
CRIMSON KING—Crimson. Deep rich color and very largePkt. 10c, Oz. 40c
DEL MONTE—Salmon cerisePkt. 10c, Oz. 40c
ELEGANCE—Blush lilac, suffused pink.....Pkt. 10c, Oz. 40c
FORTUNE—Rich dark bluePkt. 10c, Oz. 40c
GLENEAGLES—Very large lavender. Splendid in every respectPkt. 10c, Oz. 40c
HEAVENLY BLUE—New. Delphinium blue, very large and good stem.....Pkt. 10c, Oz. 40c
HUNTSMAN—Dazzling scarletPkt. 10c, Oz. 40c
MAMMOTH—Blazing orange scarletPkt. 10c, Oz. 40c
MARY PICKFORD—Dainty cream pink suffused salmonPkt. 10c, Oz. 40c
MISS CALIFORNIA—Orange salmon. Petals are ruffled and the flower is exceedingly attractivePkt. 10c, Oz. 40c
MRS. A. SEARLES—Rich pink merging into a soft oriental red selfPkt. 10c, Oz. 40c
OLYMPIA—Deep glowing purplePkt. 10c, Oz. 40c
PINKIE—Mammoth rose pink, long stems. One of the best introduced.....Pkt. 15c, Oz. 50c
POWERSCOURT—Lavender. One of the finest. VigorousPkt. 10c, Oz. 40c
R. F. FELTON—Clear lavenderPkt. 10c, Oz. 40c
ROYAL PINK—Pure medium pinkPkt. 10c, Oz. 40c
ROYAL SALUTE—Deep cerisePkt. 10c, Oz. 40c
ROYAL SCOT—Orange scarlet. No other color just like this. Glistening.....Pkt. 10c, Oz. 40c
ROYAL SOVEREIGN—Glistening orangePkt. 10c, Oz. 40c
SUNKIST—Cream picotee edged rosePkt. 10c, Oz. 40c
THE CARDINAL—Scarlet. Intense poppy scarlet. StrikingPkt. 10c, Oz. 40c
THE SULTAN—Deep velvety maroonPkt. 10c, Oz. 40c
WHAT JOY—Best creamPkt. 10c, Oz. 40c
YOUTH—Large white and pink picotee. Very attractive.....Pkt. 10c, Oz. 40c

A & M GIANT SPENCERS MIXED—One of the finest and best balanced mixtures grown. All strong growers and good varieties. Pkt. 10c, Oz. 30c, ¼ lb. \$1.00, lb. \$3.00.

CUPID SWEET PEAS

These Sweet Peas make the most brilliant and showy parkings, beds and low borders imaginable. They make a uniform growth about 8 inches high and each plant is about 1 foot in diameter. Mixed—Pkt. 10c each, oz. 30c.

INOCULATE SWEET PEA SEEDS with McQUEEN'S INOCULATOR TO IMPROVE THEIR GROWTH—15c



Rainbow Collection No. 3

6 packets Standard Giant Spencer and 1 packet McQueen's Culture 50c
 One packet each—Crimson King, Mary Pickford, Royal Salute, R. F. Felton, Fortune, Youth.

Rainbow Collection No. 4

12 packets Standard Giant Spencer and 1 packet McQueen's Culture \$1.00
 One packet each—Huntsman, The Sultan, Royal Pink, Brilliant Rose, Gleneagles, Avalanche, Heavenly Blue, Olympia, Mrs. A. Searles, Royal Sovereign, Bonfire, What Joy.

A & M VERBENAS

A hardy perennial of trailing habit and one of the finest and best known for beds, parkings, etc. The colors are brilliant and varied and the new large flowered strains are handsome as cut flowers. The flowers are fragrant and produced freely throughout most of the year. They will stand much neglect after established, requiring but little water. Plant in seed boxes and transplant to a sunny situation, or may be sown in open ground during warm weather.

Hybrida Mammoth

Golden Queen—(New.) Best yellow	Pkt. 15c
Mayflower—Improved pink	Pkt. 15c
Blue—Blue shades	Pkt. 10c
Defiance Scarlet—Bright scarlet	Pkt. 10c
Pink—Pink shades	Pkt. 10c
Purple—Rich color	Pkt. 10c
Yellow—Cream yellow	Pkt. 10c
White—Dense heads	Pkt. 10c
Mixed	Pkt. 10c, 1/2 oz. 50c
Collection 43-F—One packet each of the above six named varieties at 10c, 50c postpaid.	

Hybrida Giants

A new strain of verbenas with the same characteristics as the mammoth except that each flowerlet in the cluster is much larger. This gives the blooming plant a more brilliant effect.

Lavender Glory—(New.) True lavender with creamy eye. A truly magnificent verberna of immense size..	Pkt. 25c
Carmine Pink—(New.) Very attractive	Pkt. 15c
Etna—Garnet red, deep cream eye	Pkt. 15c
Giant Salmon Pink—Huge tresses	Pkt. 15c
Luminosa—Glowing flame pink	Pkt. 15c
Lucifer Scarlet—No eye	Pkt. 15c
Rosea Stellata—Rose pink with white eye	Pkt. 15c
Violacea Stellata—Deep purple with white eyes	Pkt. 15c
Hybrida Giant Mixed	1/4 oz. 55c, Pkt. 15c

VERBENA VENOSA

This handsome hardy perennial ranks in the front line as a summer bedding and border plant, and is used extensively for terrace and rock work. Rich rosy purple; 1 foot. Pkt. 15c.

VERBENA ERINOIDES

(Moss Verbena)

Produces a mass of spreading foliage and a profusion of purple headed blooms. Much prized in rock gardens as well as for borders and does well in hot locations. Pkt. 10c.

VINCA

Rosea (Madagascar Periwinkle)—An attractive and ornamental plant. Very good for bedding and borders. It is free blooming and makes a fine cut flower, all the buds opening in water. It also makes a fine pot plant. Seed may be sown early in spring in seed boxes or in the open ground after danger of frost is over. Flowers are rose, pink and white. Pkt. 10c.



Giant
Verbena

VIOLA CORNUTA

"Tufted Pansies"—The flowers are not so large as regular pansies but bloom so freely that for bedding effect they are unsurpassed. The colors are distinct and they also bloom for a long time.

Admiration—Violet blue	1/4 oz. 75c, Pkt. 15c
Blue Perfection—Deep bright blue	1/4 oz. 60c, Pkt. 15c
Papilio—Light blue	1/4 oz. 75c, Pkt. 15c
Rose Queen	1/4 oz. 60c, Pkt. 15c
White Perfection	1/4 oz. 60c, Pkt. 15c
Purple	1/4 oz. 85c, Pkt. 15c
Yellow	1/4 oz. 60c, Pkt. 15c
Mauve Queen	1/4 oz. 60c, Pkt. 15c
Mixed	1/4 oz. 60c, Pkt. 10c

VALERIANA

(Garden Heliotrope)

Rubra Mixed—A much prized showy hardy perennial. It bears dense clusters of small heliotrope scented flowers of red or white. Blooms continuously. Pkt. 10c, 1/2 oz. 40c.

VIOLET

Dark blue. Very sweet smelling and probably the most popular of the Violet odorato strain. Pkt. 10c.

VIRGINIAN STOCKS

Very attractive hardy annual, producing a welcome supply of bright colors in the spring and early summer. Largely grown in beds and borders. Height 12 inches. Mixed. Pkt. 10c, oz. 30c.

WALLFLOWER

Delightfully fragrant flowers growing in spikes similar to stocks.

Annual Single Mixed—A beautiful single variety which flowers during the summer from seed sown in the spring. Pkt. 10c.

Perennial Double Mixed—Handsome double flowers. Should be planted in the fall for spring blooming or early in spring for late summer flowers. A fine mixture of colors. Pkt. 15c.

WIGANDIA

Macrophylla—Perennial with purple flower than can be grown as a vine or shrub. Rampant grower with large leaves. Seed should be sown in January. Height 6-8 feet. Pkt. 15c.

WILD CUCUMBER VINE

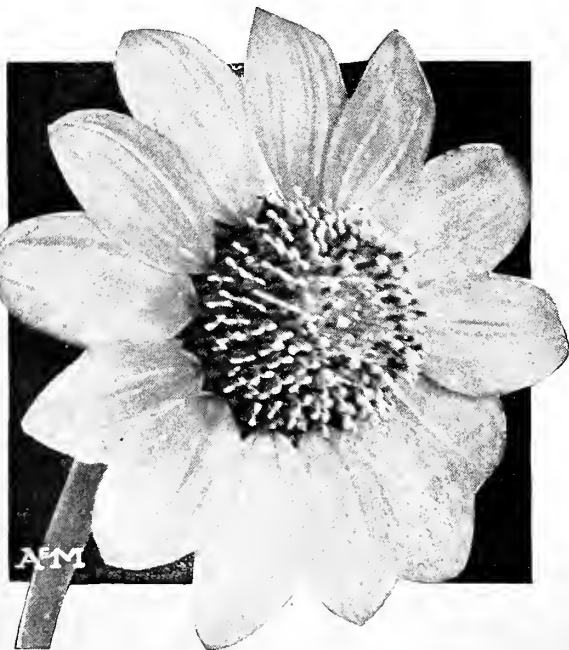
One of the most rapid and vigorous climbers we have. It is invaluable for covering unsightly places and fences. Pkt. 10c.

WISTERIA

An extremely graceful climber. For trellis and arbor work no other vine can surpass it. Grows readily from seed but plants do not make rapid growth or bloom until well established. Blue. Pkt. 10c.

XERANTHEMUM

Double Mixed—One of the most attractive and satisfactory everlasting flowers. The flowers are white, purple, yellow and rose and are pretty in the garden or dried. Plant in the open ground in a sunny situation after frost is over. Pkt. 10c.



TITHONIA SPECIOSA

(Mexican Sunflower)—Tall growing plant usually grown as an annual. Very desirable as a background to borders. Flowers are similar to single Dahlias and are a striking orange red color. Sow seed in spring when soil is warm. Pkt. 25c.

A & M CALIFORNIA ZINNIAS

There is perhaps no better illustration of the advancement in plant breeding than the glorious Zinnias grown today. From the small flowers of a few years back have been evolved the marvels of size, color, form and wonderful freedom in flowering which is seen in the latest creations. The Zinnia is one of the most satisfactory flowers to grow through the summer. It is extremely colorful, stands considerable heat and has few pests. As a cut flower it is unexcelled. Seed should not be sown until the soil has become warm in the spring. Cover the sowing with a burlap and do not allow to dry out. Remove the burlap as soon as the seed sprouts.

A & M DAHLIA FLOWERED

Indicating the excellence of this Improved Strain of Zinnias it was granted an Award of Merit by the Royal Horticultural Society of England, 1924, and it creates a sensation wherever grown. The large size, fullness of petals, extraordinary color range, and good keeping qualities have all contributed to its popularity. The flowers resemble in appearance the Decorative Dahlia and is called the Dahlia Flowered Zinnia for this reason. When in full bloom they often measure five to six inches in diameter. The A & M Dahlia Flowered Zinnia is strictly a California introduction and we cannot recommend it too highly to our friends.

Canary Bird—A delicate shade of primrose. Does not burn in the sun. Pkt. 15c.

Crimson Monarch—Bright crimson. The largest of the dahlia-flowered type. Pkt. 15c.

Dream—Deep lavender purple, a very beautiful shade. Pkt. 15c.

Exquisite—One of the most pleasing shades. Color a light rose with deeper rose center. Pkt. 15c.

Golden Dawn—(New.) Bright golden yellow, lighter than Golden State. Pkt. 15c.

Golden State—Yellow in bud, turning to a rich orange when in full bloom. Pkt. 15c.

Illumination—A deep rose, soft color. Pkt. 15c.

Luminosa—(New.) Lovely shade of bright rose, slightly darker than Exquisite. Pkt. 15c.

Meteor—A rich glowing deep red and the darkest of all red shades. Good depth of petal. Pkt. 15c.

Oriole—Immense flowers of orange and gold. Very fine. Pkt. 15c.

Polar Bear—A beautiful pure white flower of the form of a Dahlia. Pkt. 15c.

Purple Prince—A fine, deep purple. Large and well formed blooms. Pkt. 15c.

Scarlet Flame—Large, beautiful bright scarlet, with a delightful blending of orange throughout petal. Pkt. 15c.

Collection No. 39-F—One packet each of ten selected varieties of Dahlia Flowered Zinnias, for a most gorgeous display, \$1.15.

Special Dahlia Flowered Mixture—This mixture contains all of the Zinnia novelties and is a most wonderful collection. It will make an excellent garden show and produce fine flowers for cutting. Pkt. 15c, ¼ oz. 65c.

DAHLIA FLOWERED RADIANT MIXTURE—An excellent selection of this wonderful type of Zinnia particularly recommended where larger plantings are required. A splendid range of colors. Pkt. 10c, ¼ oz. 45c, oz. \$1.25.



A & M Dahlia Flowered Zinnia

A & M CALIFORNIA MAMMOTH TYPE

This magnificent new type of Zinnia promises to rival in size the now universally famous Dahlia Flowered strain. The enormous flowers often measuring 5 to 6 inches across, have smaller centers than the Dahlia Flowered and the petals, while not cupped, are symmetrically formed presenting an extremely graceful appearance.

Unsurpassed as a decoration for large vases.

Cherise Queen —Beautiful cerise rose	Pkt. 15c
Enchantress —Light rose, deep center	Pkt. 15c
Lavender Gem —Exquisite lavender purple	Pkt. 15c
Lemon Queen —Two tone yellow	Pkt. 15c
Orange King —Burnt orange	Pkt. 15c
Orange Queen —Golden yellow	Pkt. 15c
Purity —Beautiful white	Pkt. 15c
Rose Queen —Striking bright rose	Pkt. 15c
Scarlet Gem —Glowing scarlet	Pkt. 15c
Violet Queen —Rich deep purple	Pkt. 15c

Collection 47-F—One packet each of the above ten named varieties, \$1.15.

California Mammoth Mixed—Fine mixture of all colors. Pkt. 15c, ¼ oz. 65c.

Special Pomona Collection of Dahlia Flowered Zinnias

Most people who visit the famous Agricultural Fair at Pomona, Calif., carry away with them a mind picture of the glorious Dahlia Flowered Zinnias which are planted around the great buildings each summer and which are an outstanding attraction during the ten days of the Fair in September. You too can have the same success by planting the identical strain of seed. We offer in the Special Pomona Collection one packet each of six of the most picturesque colors packed in a beautiful lithograph package.

1 Collection of Six Separate Colors for 75c

ZINNIAS—Continued

ZINNIAS—Continued

Small Flowered Zinnias

A & M LILLIPUT OR POM PON

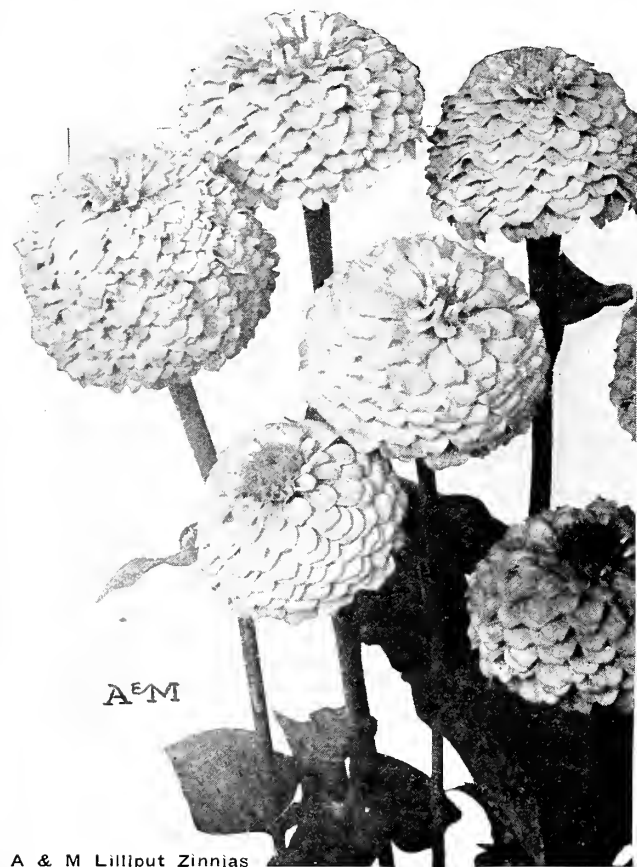
Pom Pon Zinnias have deservedly become extremely popular in recent times. The compact bushes grow two feet high and are profusely covered by dainty double flowers on long stems. Makes a wonderful cut flower and compares favorably with the Pom Pon Dahlia for sheer dazzling effect when set in large bowls.

Canary Yellow—Primrose yellow	Pkt. 15c
Crimson Gem—Dark crimson	Pkt. 15c
Golden Gem—Golden yellow	Pkt. 15c
Purple—Deep purple	Pkt. 15c
Salmon Rose—Florists favorite	Pkt. 15c
Scarlet Gem (Red Ridinghood)—Bright red	Pkt. 15c
White Gem—Pure white	Pkt. 15c
Pom Pon Mixed—Containing all the colors.....	Pkt. 15c
	1/4 oz.—40c

Collection 50-F—One packet each of the seven above named varieties, 85c.

HAAGAENA

Of new introduction, dwarf, the plant carrying small, prettily marked flowers. A variety when better known will have a big demand. Pkt. 25c, 1/4 oz. 60c.



A & M Lilliput Zinnias



Picotee Delight

PUMILA PICOTEE DELIGHT ZINNIA

Mixed—New type of Zinnia. The petals are ruffled and curled and a large percentage are gold tipped or picotee. Splendid for bedding or for cut flower. Height 1½-2 feet. Pkt. 25c.

EARLY WONDER ZINNIA

A new race of dwarf, early flowering Zinnias. When in full bloom the plants stand 12-15 inches high producing flowers of a fiery salmon cerise. As the plants have very few leaves they afford a solid block of flower which is most attractive and desirable for bedding. Pkt. 25c.

CROWN O'GOLD ZINNIAS

Each petal of the flower is overlaid with a golden yellow at the base while carrying out the individual color at the tip. The effect is very pleasing. This Zinnia is of much the same type, size of flower and height as Dahlia Flowered with a wide range of colors. Pkt. 25c.

Medium Flowered Zinnia
ELEGANS BEDDING ZINNIA

This variety is the most uniform in size of flower and plant. The flowers measure about 2 inches across, have long stems and for bouquets and vase work are both graceful and attractive. Height 2 feet.

Canary Yellow—Bright primrose	Pkt. 10c
Crimson—Glowing deep red	Pkt. 10c
Fireball—Orange scarlet	Pkt. 10c
Flesh Pink—Soft pale pink	Pkt. 10c
Snowball—Pure white	Pkt. 10c
Salmon Rose—Beautiful shade	Pkt. 10c
Scarlet—Bright color	Pkt. 10c
Violet—Attractive shade	Pkt. 10c
Golden Yellow—Deep yellow	Pkt. 10c
Dwarf Mixed	Pkt. 10c, 1/2 oz. 30c
Tall Mixed—Height 3 feet	Pkt. 10c, 1/2 oz. 30c

A & M CALIFORNIA WILD FLOWER MIXTURE

A splendid mixture of true California annual wild flowers so blended as to give a succession of bloom from early spring to mid-summer. All colors may be found in this mixture. For best results the seed should be sown in a prepared seed bed. They may be planted from fall to early spring—a longer bloom resulting from the fall planting. If you have a piece of ground you cannot irrigate, or have not time to give particular attention, yet you want to have something beautiful instead of unsightly weeds, we advise you to plant one of our Wild Flower Mixtures. Five pounds of seed is sufficient to plant an acre.

A & M Brilliant Wildflower Mixture—A splendid assortment of 20 or more species. Pkt. 15c, oz. 50c, 1/4 lb. \$1.50, lb. \$5.00.

A & M California Wildflower Mixture—A fine standard mixture. Pkt. 10c, Jumbo Pkt. 20c, Oz. 30c, 1/4 lb. \$1.00, lb. \$3.00.

TREE AND SHRUB SEEDS

Most tree seeds should be planted during the winter and early spring months. Pine and Conifer seeds in March and April. Sow in boxes of well drained soil and keep in a protected place. A lath house is the best. Water in the morning to prevent seedlings from "damping off." When about two inches high, pot up and grow in pots until large enough to set out.

ACACIA—Soak seed in hot water 12 hours before planting.

A. Baileyana—30 ft. The most popular. A fast grower with glaucous green foliage. Pkt. 15c, oz. 75c.

A. Cultiformis—"Knife-leaved" Acacia. A fine shrub with glaucous green leaves. Height 15 ft. Pkt. 15c, oz. 75c.

A. Dealbata—10 ft. "Silver Wattle" finely cut foliage. Good for street planting. Pkt. 10c, oz. 60c.

A. Decurrens—50 ft. "Green Wattle." A rapid grower. Can be used as wind-break and is valuable for turner's work. Is rich in tannin. Pkt. 10c, oz. 75c.

A. Floribunda—30 ft. A pretty tree of pendulous habit, quick growth and constantly in bloom. Pkt. 15c, oz. 60c.

A. Latifolia—30 ft. "Golden Wattle." Ornamental; leaves long and rather broad. Pkt. 10c, oz. 60c.

A. (Albizzia) Lophantha—30 ft. "Crested Wattle." Rapid grower. Grows in poor soil. Pkt. 10c, oz. 35c.

A. Melanoxylon—75 ft. A compact tree useful for street planting. Wood used in cabinet work. Pkt. 10c, oz. 75c.

A. Podalyriaefolia—Beautiful shrub with masses of flowers. Pkt. 25c, oz. \$1.00.

A. Pruinoso—25 feet. Drooping form with finely cut foliage. Yellow flowers in large racemes. Pkt. 25c, oz. 75c.

A. Saligna—Handsome glaucous green, pendulous tree. Hardy and drought resistant. Flowers very beautiful for cutting. Pkt. 15c, oz. 60c.

A. Verticillata—A low growing variety with narrow, needle-like leaves. Suitable for hedges. Covered in spring with golden flowers. Pkt. 25c, oz. \$1.00.

A. (Albizzia) Julibrissen—(Silk Tree) Beautiful Shade Tree with fern-like foliage. Covered in summer with feathery pink blossoms. Pkt. 10c, oz. 50c.

ACER MACROPHYLLUM—"California Maple," 75 ft. A native deciduous tree. Leaves large. Beautiful in autumn. Pkt. 10c, oz. 60c.

ARALIA PAPERIFERA—(Rice Paper plant)—A desirable plant for tropical effects. Huge lobed leaves and umbels of white flowers make it a very valuable plant in landscape work. Pkt. 25c.

ARALIA SIEBOLDII (Fatsia Japonica)—Shrub with large glossy fig-like leaves and clusters of small white flowers followed by small black berries. Pkt. 25c.

ARBUTUS UNEDO (Strawberry Tree)—10 feet tall. Dark green foliage, similar to California Holly. Small white bell-shaped flowers followed by red strawberry-like fruits, in December. Pkt. 10c, oz. 60c.

BAUHINIA PURPUREA (Mountain Ebony or Orchid Tree)—A rare and beautiful evergreen tree of medium size. Flowers are huge and range from white to purple. Pkt. 15c.

BERBERIS AQUIFOLIUM (Oregon Grape)—Graceful, ornamental shrub with beautiful holly-like foliage and racemes of golden yellow flowers, followed by purple berries. Pkt. 15c, oz. 75c.

BERBERIS DARWINII—Very ornamental dwarf shrub with small holly-like foliage which turns red in winter. Saffron yellow flowers followed by purple berries. Pkt. 25c.

BORONIA MEGASTIGMA—Small Australian shrub with maroon-purple flowers; sweet scented. Pkt. 25c.

CALLISTEMON RIGIDUS ("Bottle Brush")—A graceful tree or large shrub with drooping branchlets. The leaves are narrow, pointed and rigid. Flowers in bottle brush like spikes of deep red. Pkt. 15c, 1/4 oz. 50c.

CAMPORA OFFICINALIS—"Camphor Tree," 30 ft. An ornamental and attractive tree with shiny green foliage. Pkt. 10c, oz. 45c.

CASSIA ARTEMISIOIDES—Shrub. Soft, gray-green, finely-cut foliage. Deep yellow, sweet scented flowers. Stands drought. May be used for hedges. Pkt. 15c, oz. \$1.25.

CASSIA TOMENTOSA—A quick growing shrub with yellow flowers in winter. Drought resistant. Pkt. 15c, oz. 50c.

CASSIA NAIROBENSIS—Leaves are much larger than *Tomentosa*. Large heads of deep yellow flowers. Grows rapidly. Pkt. 25c.

CASUARINA EQUISETIFOLIA—Very tall and rapid growing tree. The wood is very valuable for many purposes. Pkt. 25c.

CASUARINA STRICTA (She Oak)—Slender graceful tree resembling a pine. Grows rapidly and resists drought and extremes of heat and cold. Pine for parkings. Pkt. 15c, oz. \$1.00.

CEANOTHUS CYANEUS—Splendid shrub with dark blue flowers which appear late in spring. Makes a good hedge. Pkt. 25c.

CEANOTHUS SPINOSUS—The most rapid growing of the California lilacs. Light blue flowers in clusters. Very hardy. 20 feet. Pkt. 10c, oz. 75c.



Eucalyptus ficifolia

CEDRUS DEODARA—A beautiful evergreen of silvery green foliage, pyramidal form and drooping branches. Pkt. 25c, oz. 85c.

CERATONIA SILIQUA—"St. John's Bread" or "Carob Tree." A very ornamental compact growing tree. Thrives in any soil and will withstand drought. Pkt. 10c, oz. 30c.

CHAMAECYPARIS LAWSONIANA (Lawson Cypress)—One of the most stately of all evergreen trees. Horizontal pendulous branches and flat foliage of soft gray color. Hardy except in dry interior. Pkt. 15c, oz. 60c.

CHORIZEMA ILICIFOLIA—A spreading shrub with holly-like foliage and small pea-shaped, orange-scarlet flowers. Blooms in winter and early spring. 100 seeds 30c.

COPROSMA BAUERI—A very popular, low-growing shrub with round, glossy, bright green leaves used a great deal in mass against porches and walls. Pkt. 15c, oz. \$1.00.

CORONILLA GLAUCA—A small evergreen shrub with glaucous foliage and yellow pea shaped flowers borne during late winter. Pkt. 10c, oz. \$1.00.

COTONEASTER ANGUSTIFOLIA (*Pyracantha angustifolia*)—Spreading shrub, 10 feet. Bears orange yellow berries in abundance throughout the winter. Pkt. 15c, oz. \$1.00.

COTONEASTER FRANCHETTI—Handsome 5 ft. shrub. Pink flowers followed by orange red berries. Pkt. 10c, oz. \$1.

COTONEASTER PANNOSA—Shrub of upright growth, small branches drooping. Leaves green above, silvery beneath. White flowers followed by red berries in the fall. Pkt. 10c, oz. 85c.

CRATAEGUS CRENULATA—A thorny shrub with small leaves and red berries. Pkt. 10c.

CRATAEGUS PYRACANTHA (Coccinea)—A thorny, thick-growing shrub with small leaves. The white flowers are followed by orange scarlet berries, making the plant beautiful during the winter. Pkt. 10c.

CRATAEGUS YUNNANENSIS—A low-growing, squat variety coming from Japan. The berries are very bright red and borne in great abundance. A handsome, rare variety. Pkt. 10c.

CRYPTOMERIA ELEGANS—"Fine leaved Japan Cedar." Fine foliage which turns red in the winter. A beautiful tree for the lawn. Pkt. 15c, oz. 60c.

CUPRESSUS MACROCARPA—"Monterey Cypress," 75 ft. Native of California. Extensively used for hedges and windbreaks. Pkt. 10c, oz. 50c.

C. SEMPERVIRENS—"Italian Cypress." A narrow tapering tree. Used in landscape gardening. Pkt. 10c, oz. 75c.

C. ARIZONICA ("Arizona Cypress")—One of the best cypresses, with a bluish cast. Has a slender, upright growth and will thrive in almost any soil, standing both heat and cold. Pkt. 10c, oz. 75c.

CYDONIA JAPONICA SANGUINEA (Scarlet Flowering Quince)—Beautiful deciduous shrub bearing a profusion of scarlet flowers. Pkt. 15c, oz. \$1.00.

DIOSMA ERICOIDES (Breath of Heaven)—Small shrub with fine heather-like foliage and dainty fragrant white flowers. Pkt. 15c, 1000 seeds \$2.50.

DURANTA PLUMIERI (Golden Dewdrop)—Tall rapid growing shrub with lavender-blue flowers in terminal clusters, followed by yellow berries. Drought resistant. Pkt. 10c, oz. 65c.

ERYTHRINA CHRISTA-GALLI (Coral Tree)—Showy and beautiful shrub or small tree producing many butterfly-like flowers of a brilliant crimson shade. Pkt. 15c, oz. \$1.00.

ESCALLONIA MONTEVIDIENSIS—Attractive, evergreen, erect shrubs growing in almost any ordinary soil. Of very free flowering habit. White flowers in loose terminal clusters. Pkt. 15c, 1-16 oz. 50c.

EUCALYPTUS

Should be sown in June or July in thoroughly prepared seed boxes. The beds should be kept moist at all times and watered only with a very fine spray. When seedlings appear water only in the morning to prevent damping off. The seedlings should be transplanted when 2 or 3 inches high, to other boxes or small pots, and should be ready to set out in February and March. One pound produces about 22,000 seedlings.

E. Citriodora (Lemon Gum)—Tall slender tree with clean gray bark and lemon scented foliage. Rapid growing and drought resistant. Pkt. 25c, oz. \$1.50.

E. Corynocalyx—"Sugar Gum," 100 ft. This variety is the most drought resistant of all, but will not stand much frost. Wood hard. Pkt. 15c, oz. \$1.00.

E. ficifolia—"Scarlet Flowering Gum." The best of the red flowering varieties. 25 seeds 25c.

TREE AND SHRUB SEEDS—Continued.

- E. Globulus**—"Blue Gum." Most rapid grower and best known species. Grows well along coast. Wood is durable and also good fuel. A profitable tree to grow. Pkt. 15c, oz. \$1.25.
- E. Robusta** (Swamp Mahogany)—Large glossy green leaves with creamy white flowers. Height 100 feet. Does best in moist situations and useful for wind-breaks. Pkt. 15c, oz. 75c.
- E. Rostrata**—"Red Gum." A very tall variety. Withstands extremes of heat and cold. Grows most quickly in the hot sections. Is durable and useful for cabinet work. Pkt. 15c, oz. 75c.
- E. Rudis**—"Desert Gum." Very valuable for hot arid sections. Wood durable. Good for street planting. Pkt. 15c, oz. \$1.00.
- E. Sideroxylon Rosea** (Red Ironbark)—One of the most beautiful of all Eucalypti. Adapted to any location and bearing masses of delicate pink flowers which contrast with the dense silvery gray foliage. Pkt. 25c, oz. \$1.25.
- E. Tereticornis** (Forest Red Gum)—Height 150 feet. Beautiful tree and very hardy and drought resistant. Pkt. 15c, oz. 75c.
- E. Viminalis**—"Manna Gum." A hardy rapid growing variety well suited to exposed situations. The wood is softer than some, but is easier to work and takes a fine polish. Pkt. 15c, oz. \$1.00.
- EUGENIA HOOKERI** (Brush Cherry)—Handsome shrub with purple berries. 15 feet. Easily trimmed into formal shapes. 25 seeds 15c, 100 seeds 45c.
- FEIJOA SELLOWIANA** or **PINEAPPLE GUAVA**—An attractive evergreen shrub with glaucous foliage and purplish red waxy flowers. The delicious fruit may be eaten raw or cooked. Pkt. 15c.
- FRAXINUS VELUTINA** (Arizona Ash)—Rapid growing tree for planting in hot dry locations. Will grow on alkaline soils. Pkt. 10c, oz. 50c.
- FREMONTIA MEXICANA**—Wonderful shrub for hot, dry sections. Leathery dark green foliage with deep orange flowers—3 to 4 inches across. Pkt. 25c.
- GENISTA CANARIENSIS** (Canary Broom)—Free flowering shrub. 6 to 8 feet. Bright yellow flowers in great profusion. Pkt. 15c, oz. 75c.
- GENISTA FRAGRANS**—A pretty shrub. compact in growth, covered in the spring with yellow flowers. Pkt. 15c.
- GENISTA MONOSPERMA PENDULA** (Bridal Veil Broom)—Rare shrub growing 10-15 feet. Silver grey needle-like foliage and white flowers. Very beautiful subject. Pkt. 15c.
- GENISTA MULTIFLORA ALBA**—Portuguese white broom. Pkt. 10c, oz. \$1.00.
- GREVILLEA BANKSII**—Bushy shrub, 6 to 8 feet. Attractive fern-like leaves and erect clusters of crimson flowers. Pkt. 25c.
- GREVILLEA ROBUSTA**—"Silky Oak." A pretty tree with fern-like foliage. Orange colored flowers. Rapid grower; withstands drought. Pkt. 15c, oz. \$1.00.
- GUAVA STRAWBERRY** (*Psidium Cattleianum*)—Fine glossy-leaved shrub producing an abundance of luscious fruit the size of a large strawberry. Pkt. 15c, oz. 75c.
- GUAVA LEMON** (*Psidium Guajava*)—Large yellow fruits. Plant is tender against frost. Pkt. 15c, oz. \$1.00.
- HAKEA LAURINA**—Tall compact shrub with hard stiff leaves. Showy scarlet globe shaped flowers. Pkt. 15c.
- HAKEA SALIGNA** (Willow Acacia)—Similar to preceding with small white flowers. Pkt. 15c.
- HARDENBERGIA OVATA BLUE**—Useful, quick growing shrub with wisteria-like flowers in late spring and early summer. Bright blue flowers. Pkt. 10c.
- HARDENBERGIA OVATA MIXED**—Blue and white mixed. Pkt. 10c.
- JACARANDA MIMOSAEFOLIA**—30 feet. A fine tree with fernlike foliage, bearing clusters of light blue flowers. Pod contains 30 or 40 seeds. 5c, a pod.
- JUNIPERUS VIRGINIANA**—Red Cedar. 60 feet. A handsome well known tree. Pkt. 10c, oz. 60c.
- LAGUNARIA PATERSONII**—Small pyramidal tree with oval leaves and pale rose flowers similar to Hibiscus. Pkt. 15c, oz. \$1.00.
- LAUREL, ENGLISH** (*Prunus Laurocerasus*)—Evergreen shrub. Is effective wherever planted. Broad leaves, leathery and glossy. Small white flowers in clusters. Seed slow in germination. Pkt. 10c.
- LAUREL, PORTUGAL** (*Laurus Lusitanica*)—Dark green glossy-leaved shrub, 8 feet. Flowers grow in panicles. Pkt. 10c, oz. 40c.
- LEPTOSPERMUM LAEVIGATUM**—A rapid-growing shrub of drooping, graceful habit, succeeding well in California. Foliage grayish green and white flowers borne in great profusion. An evergreen. Pkt. 25c.
- LIBOEDRUS DECURRENS**—100 feet. "Incense Cedar." A fine native tree of compact growth green foliage and red bark. Pkt. 15c, oz. \$1.00.
- LIGUSTRUM NEPALENSE**—"Small Leaved Privet." An evergreen shrub much used for hedges. Makes a thick, dense hedge, easily trimmed. Pkt. 10c, oz. 50c, 1/4 lb. \$1.50.
- LIGUSTRUM JAPONICUM**—"Japanese Privet." A large shrub with thick, dark green leaves. Much used for hedges. Pkt. 10c, oz. 50c, 1/4 lb. \$1.50.
- LOQUAT LARGE FRUITING**—A medium sized tree with large glossy leaves. The yellow fruit are borne in large clusters. Pkt. 10c, oz. 25c.
- MAGNOLIA GRANDIFLORA**—Beautiful tree for street planting. Grows 50-80 feet tall. Has thick glossy leaves and waxy white fragrant flowers. Requires abundance of water. Pkt. 10c, oz. 25c.
- MELIA UMBRACULIFORMIS**—"Texas Umbrella Tree." Deciduous. A well known shade tree. Withstands heat. Pkt. 10c, oz. 25c.
- MELALEUCA ARMILLARIS**—"Bottle Brush." A large-growing shrub of graceful drooping habit. Leaves are dense and needle like. Flower clusters white, cylindric in form and about 2 inches long. Is hardy and is generally planted in shrubby borders. Pkt. 15c.
- MELALEUCA LEUCADENDRON**—Little known but very useful tree. Tapering leaves and creamy white flowers. Withstands drought and slight frosts. Fine for parkways. Pkt. 25c.
- MELALEUCA HUEGELII**—Erect shrub, 6-15 feet. Tiny pointed scale-like leaves of greyish green. The long terminal spikes of pinkish buds open to fuzzy white flowers. Pkt. 25c.
- MELALEUCA HYPERICIFOLIA**—"Bottle Brush." A tall-growing shrub, bright green opposite leaves. Flower clusters a rich red. Very showy and one of the best. Pkt. 15c.
- MELALEUCA NESOPHYLLA**—"Bottle Brush." Similar to the above but more rapid growing. Flowers soft lavender pink. Pkt. 15c.
- METROSIDROS TOMENTOSA**—Handsome New Zealand shrub. The thick leaves are green on top and white beneath. Large dark crimson flowers. Pkt. 25c.
- MYRTUS COMMUNIS**—Handsome evergreen shrub growing 3 to 10 feet or more. Strongly scented. Bears a blue black berry. Pkt. 15c, oz. \$1.00.
- MYRTUS MICROPHYLLA COMPACTA**—Compact form of the very popular small leaves myrtle. Very desirable. Pkt. 25c.
- NANDINA DOMESTICA**—One of the most valuable shrubs for California. Erect growing with bamboo-like stems. Loose clusters of white flowers are followed by handsome red berries. Pkt. 10c, oz. 50c.
- PARKINSONIA ACULEATA** (Jerusalem Thorn)—Excellent tree for desert conditions. 20 feet. Bright yellow flowers. Attractive to bees. Pkt. 15c, oz. 50c.
- PHORMIUM TENAX** (New Zealand Flax)—Makes large clumps about 6 feet tall. Sword-like leaves. Flowers yellow with reddish tinge. Pkt. 10c, oz. \$1.00.
- PHORMIUM TENAX VARIEGATUM**—Leaves are strongly marked with yellow bands. Pkt. 10c.
- PHOTINIA ARBUTIFOLIA**—"California Holly"—A native shrub of California, growing well along the coast or in the hot interior. A decorative plant, especially during the winter when covered with the deep red clusters of berries. Pkt. 10c, oz. 40c, lb. \$4.00.
- PINUS CANARIENSIS**—"Canary Island Pine." A fast growing, robust tree, standing drought well. The foliage is a beautiful glaucous blue color. Pkt. 15c, oz. 75c.
- PINUS HALEPENSIS**—"Aleppo Pine." Recommended for seaside planting. Trunk slender and destitute of branches for a considerable height when full grown. 60 feet. Pkt. 25c, oz. 75c.
- PINUS INSIGNIS**—"Monterey Pine." Native of California, growing well near the coast. Pkt. 15c, oz. 90c.
- PINUS PINEA** (Stone Pine)—Picturesque tree growing 80 feet high with long spreading branches. Rapid grower. Pkt. 10c, oz. 30c.
- PITTOSPORUM CRASSIFOLIUM**—A tall growing shrub. Gray-green foliage and red flowers. Pkt. 15c.
- PITTOSPORUM EUGENOIDES**—A large shrub or small tree. Handsome light green leaves and dark stems. Used for specimen plants or hedges. Pkt. 15c.
- PITTOSPORUM NIGRICANS**—Upright growing shrub with small green leaves and very dark stems. Pkt. 15c.
- PITTOSPORUM RHOMBIFOLIUM**—Ht. 20 feet. A handsome ornamental tree much used for street planting. Flowers white and followed by orange berries lasting during the winter. Pkt. 25c.
- PITTOSPORUM TOBIRA**—A low-growing shrub with dark green leaves and fragrant pure white flowers. Pkt. 15c.
- PITTOSPORUM UNDULATUM**—(Wavy leaved.) Height 10 feet. A shrub or small tree which may also be used for hedges. Deep green, glossy leaves. Flowers fragrant at night. Pkt. 15c.
- PITTOSPORUM VIVIDIFLORUM**—A shrub with shiny green leaves and green flowers followed by yellow berries during the fall. Fast growing. Pkt. 25c.
- PLUMBAGO CAPENSIS**—A spreading shrub with clean, smooth, light green foliage. Flowers pale blue, phlox-like in shape. Free flowering. Pkt. 15c.
- POMEGRANATE, DWARF**—A small branching shrub 2 to 3 feet. Small bright scarlet flowers, producing miniature red fruit. Fine for pot plant. Pkt. 15c, oz. \$1.50.
- PRUNUS CAROLINIANA** (Carolina Cherry)—Excellent glossy leaved evergreen. 16 feet. Does best near coast. Pkt. 10c, oz. 25c, lb. \$2.50.
- PRUNUS ILICIFOLIA** (California Cherry)—A bush or small evergreen tree, very ornamental with shiny, green holly-like foliage. The flowers grow in racemes and are followed by large, red cherries. A native of California. Pkt. 10c, oz. 25c, lb. \$2.50.
- PRUNUS INTEGIFOLIA** (Catalina Cherry)—A native of Catalina Islands. Similar to the preceding but the leaves are larger and less spiny and the fruit larger. Pkt. 10c, oz. 25c, lb. \$2.50.
- QUERCUS AGRIFOLIA** (California Live Oak)—Magnificent dark green native oak. Oz. 20c, lb. \$1.75.
- QUERCUS SUBER** (Cork Oak)—Splendid evergreen oak about 50 feet high. The spongy bark is the source of commercial cork. Oz. 20c, lb. \$1.75.
- RAPHIOLEPSIS JAPONICA**—Compact dwarf shrub 2 1/2 to 4 feet. White flowers followed by blue grape-like berries in the autumn. Hardy. Oz. 30c, lb. \$3.00.
- RHAMNUS CALIFORNICA** (Wild Coffee)—Attractive dense shrub with glossy green leaves. Flowers creamy-white, followed by large berries in shades of yellow to purple. Oz. 40c, lb. \$4.00.
- RHAMNUS ILICIFOLIUM**—Leaves similar to English holly. Small creamy-white flowers followed by bright red berries. Pkt. 10c, oz. 50c.
- ROBINIA PSEUDACACIA** (Black Locust)—A deciduous tree of rapid growth. Drought resistant and much used in arid sections for shade. Handsome foliage. Pkt. 10c, oz. 30c.
- SCHINUS MOLLE**—"Pepper Tree." A graceful well known tree with fine foliage and red berries. Pkt. 10c, oz. 25c.
- SCHINUS TEREBINTHIFOLIUS** (Brazilian Pepper)—Similar to preceding, but has larger and longer leaves. Thrives anywhere. Pkt. 10c, oz. 50c.
- SEQUOIA SEMPERVIRENS**—"California Redwood." A fast growing native tree with reddish colored wood. Ornamental. Pkt. 15c, oz. 75c.
- SOLLYA HETEROPHYLLA**—"Australian Blue Bell." A hardy evergreen climber or may be used as a spreading shrub producing many brilliant blue bell shaped flowers. Will grow in partial shade. Pkt. 15c.

TREE AND SHRUB SEEDS—Continued

SPARTIUM JUNCEUM—"Spanish Broom." Quick growing shrub reaching a height of 10 ft. Yellow pea-shaped flowers. Pkt. 15c.

SPARTIUM SCOPARIUM—"Scotch Broom." Dense growing shrub bearing yellow pea-like flowers. Pkt. 15c.

STERCULIA DIVERSIFOLIA—"Victorian Bottle Tree." A fine tree for street planting. Glossy green foliage which varies in shape. Pkt. 15c, oz. 50c.

STERCULIA ACERFOLIA—"Flame Tree." Very showy tree for street planting. Trusses of brilliant scarlet flowers. Pkt. 15c, oz. 60c.

THUYA OCCIDENTALIS—"American Arborvitae." A good tree for planting in lawns. Bright green foliage, turns bronze in winter. Pkt. 15c, oz. 75c.

T. ORIENTALIS—"Chinese Arbor Vitae." A small growing tree. Bright green flattened foliage. Pkt. 10c, oz. 60c.

THUYA ORIENTALIS AUREA—"Golden Arborvitae." Similar to the above. The foliage beautifully tinged with gold in the spring. Pkt. 10c, oz. 75c.

UMBELLULARIA CALIFORNICA (California Mountain Laurel)—Beautiful native tree, 25 feet. The long narrow dark green leaves are pungent when crushed. Oz. 15c, lb. \$1.50.

VERONICA DECUSATA BLUE—Compact evergreen shrub 18 in. to 2 ft. tall. Useful for shrubbery borders. Sky blue flowers. Pkt. 25c.

VERONICA DECUSATA AMARANTH RED—Compact shrub 2 to 3 feet tall. Pkt. 25c.

VIBURNUM TINUS (Laurustinus) — Well known winter flowering shrub bearing clusters of small pinkish blooms. Good for hedges or mass planting. Pkt. 10c, oz. 30c.

YUCCA WHIPPLEI (Spanish Bayonet)—One of the best Yuccas. The flower stalk rises 10-15 feet with innumerable waxy white flowers. Pkt. 10c, oz. 50c.

PALM

All varieties may be sown in the open ground in mild climates except Cocos Palms. These latter require artificial heat. Some germinate quickly, others take as long as six weeks. Palms grow best in a well drained sandy loam.

CHAMAEROPS EXCELSA—"Windmill Palm." Leaves fan shaped, and deeply cut. The hardiest palm we have, a fine lawn palm. Oz. 30c, lb. \$3.00.

COCOS AUSTRALIS—"Pindo Palm." A very ornamental palm with glaucous green leaves. Quite hardy. 10 seeds 15c, 100 for 75c.

COCOS PLUMOSA—A tall graceful palm, a rapid grower and a splendid variety for street planting. 10 seeds 20c, 100 seeds \$1.25.

DRACAENA AUSTRALIS—Cultivated for the ornamental foliage. Planted in the open in California. Pkt. 15c, oz. 75c.

DRACAENA INDIVISA—Similar to above but grows more rapidly. Pkt. 15c, oz. 60c.

ERYTHEA EDULIS—"Guadalupe Palm." 30 ft. A rapid growing variety. Fan shaped leaves of dark green. 10 seeds 15c, 100 seeds \$1.00.

ERYTHEA ARMATA—"Blue Fan Palm." A slow growing hardy palm, fine for lawns. Leaves a glaucous blue. 10 seeds 15c, 100 seeds \$1.20.

PHOENIX RECLINATA—A graceful palm large and withstands cold. 10 seeds 15c, 100 seeds \$1.00.

P. CANARIENSIS—"Canary Island Palm." The most graceful and the handsomest of our hardy palms. Leaves pinnate and a green color. One of the

most effective for lawn planting. 10 seeds 10c, 100 seeds 50c.

SEAFORTHIA ELEGANS—One of the most beautiful for conservatory or protected gardens. Quite hardy. 10 seeds 15c, 100 seeds \$1.00.

WASHINGTON FILIFERA—The well known California Fan Palm. Grows 60 to 80 feet. Oz. 15c, lb. \$1.50.

WASHINGTON ROBUSTA—A hardy Fan Palm. Leaves dark green without any threads. Pkt. 10c, oz. 30c.



Phoenix Canariensis Palm

Water Lilies and Aquatic Plants



Egyptian Lotus

LOTUS

Egyptian Lotus (Nelumbium Speciosum)—The sacred flower of the Egyptians. Blossoms are rose color and possess a haunting fragrance. Tubers \$2.50.

American Lotus (Nelumbium Lutea)—The rich yellow flowers frequently attain a diameter of 8 to 10 inches. Tubers \$2.00.

We will gladly furnish gratis, upon request, a leaflet giving instructions how to build a pond and how to grow water-lilies. Also please send for our complete price list of Water Lilies and other aquatic plants.

HARDY WATER LILIES

Packing and postage 10c extra for each Lily

Alba Candidissima—Early and free bloomer with large pure white flower. Each \$1.25.

Aurora—Flowers rosy-yellow on first day, changing to deep red on third day; stamens orange. Each \$1.50.

Gladstoniana—Flowers pure dazzling white and cup-shaped. One of the best for large pools, being very massive and requiring plenty of space. Each \$1.25.

James Brydon—Beautiful cup-shaped flowers of rich rosy-crimson color, reverse of petals having silvery sheen. Free and continuous bloomer. Each \$2.00.

Marliacea Albida—Large and fragrant flowers of sparkling whiteness with yellow stamens and sepals flushed pink. Continuous bloomer. Each \$1.25.

Marliacea Carneae—Color a soft flesh pink. Splendid companion to next variety, which it resembles. Each \$1.25.

Marliacea Chromatella—Flowers bright canary yellow and leaves deep green beautifully blotched with brown. Each \$1.00.

Masaniello—Novel coloring of rose-pink, dotted carmine with white sepals. The flower is very fragrant. Free grower, needing considerable room. Each \$2.00.

Mexicana—Handsome bright yellow flowers standing well above the water and very fragrant. Unique. Each 50c.

Pygmaea Helvola—Miniature yellow water lily. Very dainty sort for aquariums, tubs or shallow pools. Each 75c.

Robinsonia—Distinct variety, the floating flowers having a ground color of yellow overlaid with purplish red. Each \$1.75.

Wm. Doogue—A magnificent lily. Beautiful shell-pink color and blooms continuously. Each \$1.50.

TROPICAL WATER LILIES

Zanzibarensis Azurea—Beautiful water-lily, the flowers being large and of a clear azure blue. Each \$1.75.

Zanzibarensis Purpurea—One of the best in this class. Rich, dark blue flowers are produced on long stems. Each \$2.00.

Zanzibarensis Rosea—Similar to above. Color a deep rosy-pink. Each \$1.50.

Zanzibarensis Rubra—Splendid variety bearing flowers of very bright rosy-crimson. A free bloomer. Each \$2.00.

MISCELLANEOUS PLANTS

Anacharis—Bunch or 5 strands 15c.

Coon Tail—Bunch of 5 strands 15c.

Heteranthera—Bunch of 5 strands 15c.

Water Hyacinth—10c ea., \$1.00 doz.

Water Poppy—10c ea., \$1.00 doz.

Arrowhead Giant—25c ea., \$2.00 doz.

BEGINNER'S COLLECTION

This is a well-balanced collection, especially selected for those starting a new pool.

1 Marliacea Carneae—Pink	\$1.25
1 Marliacea Chromatella—Yellow	1.00
1 Arrowhead Giant	.25
1 Iris Pseudacorus	.25
1 Water Hyacinth	.10
1 bunch Coon Tail	.15
1 bunch Anacharis	.15
12 Snails	.60

For \$3.00 postpaid.

\$3.75

A & M Superfine Gladioli

Our Gladioli are grown on new, clean land each season thus eliminating any danger from fungus that might be carried over from year to year. As an additional safeguard the bulbs are treated in a disinfectant solution before planting. No flowers are cut for sale from our fields. By allowing the flower and foliage to die down naturally more vitality returns to the bulb and it is superior in all respects. Gladioli should be planted about three inches deep in good soil, preferably in a sunny situation. Note—The No. 2 size bulbs of some varieties listed below are not so large as the standard size but will produce good flower spikes.

Outstanding Varieties

Among Gladioli as in other subjects there are certain varieties that stand out above others and are always prominent wherever grown or exhibited. The following sorts are generally considered to be among the finest in cultivation today and are offered for the first time at popular prices.

BETTY NUTHALL—A recent introduction that has proved a regular prize winner. The flowers are a vivid orange, pink and yellow and form a wonderful spike of splendid substance. Tall and vigorous. 20c each, \$2.00 doz.

CHARLES DICKENS—Clear bright purple with velvety blotch on lower petal. Flowers are splendidly placed on stem. Good substance. 15c each, \$1.50 doz.

DR. F. E. BENNETT—Peerless flame scarlet variety with ruby throat. Flowers of good substance. Superior to Virginia. 10c each, \$1.00 doz.; No. 2 size, 75c doz.

GOLDEN DREAM—Deep golden yellow. One of the best clear yellow Gladioli

introduced. Very long, straight spike. 10c each, \$1.00 doz.; No. 2 size, 75c doz.

MINUET—An exquisite flower of beautiful clear lavender. The spikes are of good size and florets nicely placed on straight stems. 25c each, \$2.50 doz.

MRS. LEON DOUGLAS—Immense begonia rose flower striped with flame and brilliant scarlet. Lip pale lemon, slightly speckled with ruby. A giant among Gladioli. 10c each, \$1.00 doz.; No. 2 size, 75c doz.

MRS. VON KONYNENBURG—Matchless aniline-blue. Fine, healthy grower. 15c each, \$1.25 doz.

PURPLE GLORY—Glorious ruffled flowers of velvety maroon purple. Very tall and showy. 10c each, \$1.00 per doz.

W. H. PHIPPS—The wonder Gladioli. Spikes are enormous with several flowers open at the same time. Lovely salmon pink; lower petals faintly speckled ruby. A prizewinner. 15c each, \$1.50 doz.; No. 2 size, 10c each, \$1.00 doz.

General List

A & M Admiration (New Primulinus)—A sturdy grower carrying spikes of exquisite salmon pink with yellow throat. 10c each, \$1.00 dozen.

Aida—Striking purple-blue with small reddish blotches on lower petals. Beautiful large flowers. 25c each, \$2.50 dozen.

Albatross—Unquestionably one of the finest and largest white Gladioli yet introduced. Perfect spikes with flowers of wonderful substance. No markings in throat. \$1.00 each.

Alice Tiplady (Primulinus)—Beautiful orange-saffron color. 3 for 15c, 50c doz., \$4.00 per 100.

America—Soft lavender-pink. Very popular. 10c each, 60c doz., \$4.50 per 100.

Athene—Fine salmon-rose-red; very distinct. 15c each, \$1.25 per dozen.

Bevier—Medium sized flowers well placed. Salmon pink, lower petal blotched primrose. 10c each, 75c dozen, \$5.00 per 100; No. 2 size 50c dozen, \$4.00 per 100.

Buckeye—Massive blooms of rose-pink. 10c each, 75c dozen, \$5.00 per 100; No. 2 size 50c dozen, \$4.00 per 100.

Butterboy—Meritorius Primulinus. Large, buttercup-yellow flowers, nicely placed. Strong plant. 15c each, \$1.50 doz.

A & M Camarillo Gem—A wonderful new seedling with beautiful large salmon spikes. An extremely choice variety, highly recommended. 15c each, \$1.50 doz.

Cardinal Prince—Splendid red; darker than Dr. Bennett. 15c each, \$1.50 dozen.

A & M Charmaine—New seedling. Apricot pink with scarlet veining in throat. Stiff stem. Excellent landscape variety and admirable for bouquets. 15c each, \$1.50 dozen.

C. F. Fairbanks—Very beautiful and distinct orange-red with crimson center. Remarkably long stems. 15c each, \$1.50 per dozen.

Darling's Beauty—Exquisite combination of yellow and pink hard to describe. Los Angeles florists are enthusiastic over this dainty variety which is offered for the first time. 20c each, \$2.00 dozen.

David Starr Jordan—Immense spikes of flame color overlaid scarlet. Open flowers. 15c each, \$1.25 per dozen, \$10.00 per 100.

A & M Diadem—Distinctive form and dainty saffron pink color. A new seedling which was very outstanding in our trials. 10c each, \$1.00 per dozen.

Dr. Van Fleet—Oriental red rayed over yellow. 15c each, \$1.50 per dozen.

E. B. Williamson—Good for landscaping; it stands erect. Mallow purple. Highly desirable for bouquets. 10c each, 75c per dozen, \$5.50 per 100; No. 2 size, 50c dozen, \$4.00 per 100.

E. J. Shaylor—Deep rose pink. 10c each, \$1.00 per dozen, \$7.00 per 100.

Elf—Pure white with delicate lemon tip. 10c each, \$1.00 dozen, \$7.00 per 100.

Evelyn Kirtland—Coral pink. 3 for 15c, 50c dozen, \$4.00 per 100; No. 2 size, 40c dozen, \$2.75 per 100.

A & M Flaming Spire—Beautiful new Primulinus variety of striking rose doree color shading to scarlet with veining of lighter hue and slightly edged cream giving a feather-like appearance to petals. The spikes are long and graceful with medium sized flowers well placed. 20c each, \$2.00 doz.; No. 2 size, 15c each, \$1.50 doz.

Frank M. Shick—Clear geranium pink with soft cream throat. Many open at one time in good placement. 25c each, \$2.50 dozen.

George Arends—Pfitzer introduction. Very lovely salmon shade. Early and strong grower. 25c each, \$2.50 dozen.

Gold Eagle—Deep rich yellow blooms daintily frilled. 20c each, \$2.00 dozen.

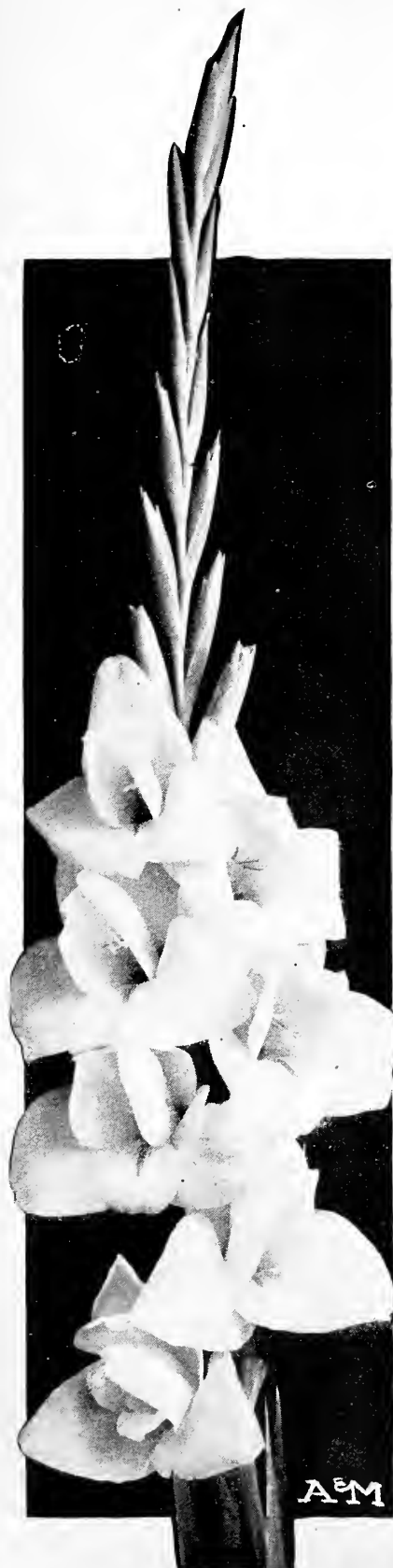
Golden Measure—A large, clear, deep yellow. 10c each, \$1.00 doz., \$7.00 per 100.

Halley—Salmon-pink. 3 for 15c, 50c doz., \$4.00 per 100; No. 2 size, 40c doz., \$2.75 per 100.

Herada—Mauve. 3 for 15c, 50c doz., \$4.00 per 100; No. 2 size, 40c doz., \$2.75 per 100.

Jack London—Light salmon with vermilion stripes. Canary yellow throat with ruby stripes. A most beautiful color combination, good substance, tall, erect spike. 10c each, 75c per dozen, \$5.50 per 100.

Joe Coleman—Large rich red. 10c each, \$1.00 dozen.



Orange Queen

Gladioli - - Continued

June Delight—Exquisite geranium-red with deeper throat. 15c each, \$1.25 dozen.

Karl Volkert—Magnificent flame-salmon with dash of yellow on lower petal. Many flowers open at same time on long spike. Wonderful introduction. 20c each, \$2.00 dozen.

Kriemhilde—Lilac-pink flower of noble form. Never has a crooked stalk. 20c each, 3 for 50c, \$2.00 dozen.

Le Marechal Foch—Light pink. 10c each, 75c per dozen, \$5.50 per 100.

Lilac Old Rose—Very charming color and good spike. 15c each, \$1.25 dozen.

Los Angeles—Grenadine pink with considerable orange. Los Angeles is often referred to as the "Cut and Come Again" Gladiolus, because it produces many branches on one stalk. For commercial growers or for the home gardener we cannot recommend it too highly. 10c each, 75c per dozen, \$5.50 per 100.

Maiden Blush (Primulinus)—Exquisite pink. 10c each, 60c dozen, \$4.50 per 100.

Midsummer Dream—Geranium red; a prizewinner in the Primulinus class. 25c each, \$2.50 dozen.

Masterpiece—American Beauty rose color. Very large flowers slightly ruffled. 25c each, \$2.50 dozen.

Mrs. F. C. Peters—Lovely rose lilac with crimson blotch. 15c each, \$1.50 doz.

Mrs. Frank Pendleton—Rose pink, carmine blotch on lower petals. 3 for 15c, 50c doz., \$4.00 per 100; No. 2 size, 40c doz., \$2.75 per 100.

1910 Rose—Pure deep rose pink with white center lines on lower petals. Strong grower, early and a good cut flower. 10c each, 60c dozen, \$4.50 per 100; No. 2 size, 45c dozen, \$3.50 per 100.

Orange Queen—Exceptional Primulinus variety with superb spikes of distinct glowing apricot orange color. Very striking. 15c each, \$1.25 per dozen.

Paul Pfitzer—Brilliant velvet purple; attractive new color. Perfect placement. 25c each.

Primrose Princess—Strong growing rich primrose-yellow. Well worthy of a place in the Gladiolus garden. 25c each, \$2.50 dozen.

Prince of Wales—A clear, delicate salmon pink. The finest of this color and one that we highly recommend. An early variety and very popular for cutting. 10c each, 60c dozen, \$4.50 per 100.

Rose Ash—Old rose overlaid and blended with pink and red. A striking combination difficult to describe. 10c each, \$1.00 dozen, \$7.00 per 100.

Souvenir—The finest clear bright yellow in existence. 10c each, \$1.00 dozen, \$7.00 per 100.

Sulphur Frills—Medium sized flowers borne on tall spikes; ruffled; soft sulphur shade. 25c each, \$2.50 dozen.

Twinkles—Dainty salmon-rose with blush and buff throat. Graceful plant. 75c each, \$5.50 dozen.

Tyrean Beauty—Exquisite shade of magenta rose. Elegant large blooms. Highly recommended. 20c each, \$2.00 dozen.

Virginia—Brilliant scarlet. The most popular red variety. A vigorous grower with erect stalks. Exceedingly attractive for cutting or will give a grand mass of color when grown in beds. 3 for 15c, 50c doz., \$4.00 per 100; No. 2 size, 40c doz., \$2.75 per 100.

Willbrink—Pale pink. 10c each, 75c per dozen, \$5.50 per 100; No. 2 size, 50c dozen, \$3.50 per 100.

De Luxe Mixture—Includes many of the finest varieties listed above and numerous worthwhile seedlings from our Trial Grounds. Many delightful surprises will be found in this mixture. 75c dozen, \$5.50 per 100, \$45.00 per 1,000.

Choice Mixture—Grown from the best mixture of bulblets. A splendid range of colors will be obtained from this fine assortment. 50c dozen, \$3.50 per 100, \$30.00 per 1,000.

Growmore Mixture—Every year we harvest thousands of bulbs which are hardly large enough to include in our other mixtures. These smaller bulbs will produce very satisfactory flowers although the spikes will not be so long as those grown from No. 1 bulbs. We are offering these at a special price to enable you to grow more Gladioli. 40c dozen, \$2.50 per 100, \$17.50 per 1,000.

Primulinus Mixed—Many of the most recent introductions are included in this mixture. This type is very valuable as a cut flower, the long slender spikes lending themselves to most artistic arrangements in vases. 50c per dozen, \$3.50 per 100.

Cannas

The large, handsome, ornamental foliage and beautiful spikes of bright flowers make the cannas ideal for mass plantings, backgrounds, borders or hedges. They may now be obtained in heights varying from 3 to 6 feet, and in colors of rose, red, orange, to pure white. Also some foliage is bright green and some a rich bronze. These new orchid flowering and large truss

varieties bloom freely from six to eight months. In mild climates there are evergreen, but we recommend cutting away the old stalks in the winter to make room for new growth. They should be separated every three years. Set roots 12 to 15 inches apart. They flower more freely in sunny situations but grow well in partial shade, requiring at all times plenty of moisture.



Red Cannas

Colossal—Luxuriant foliage of rich green. Height six feet. The flowers are a bright, rich red and the largest of all. 15c each, \$1.50 per doz., \$7.00 per 100.

King Humbert—Immense orchid flowers of brilliant orange red often streaked with gold. Sturdy bronze foliage. Four to five feet high. 15c each, \$1.50 per doz., \$7.00 per 100.

Uncle Sam—Deep vivid crimson. One of the largest orchid reds. Green foliage. Five to six feet high. 10c each, \$1.00 per doz., \$6.00 per 100.

Alphonso—Beautiful deep red flower with vigorous dark green foliage. 15c each, \$1.50 per doz., \$7.00 per 100.

Yellow and Orange

Gold Bird—In color a clear lemon yellow. The flowers are often 5 inches across, the petals being broad and rounded. Excellent green foliage. Three to four feet high. 15c each, \$1.50 per doz., \$7.00 per 100.

Gladiator—Yellow spotted red resembling a tiger lily. Splendid bloom. The foliage is green with silver edge. 4 to 5 feet high. 15c each, \$1.50 per doz., \$7.00 per 100.

Indiana—A bright, vivid orange. Fine shaped flowers in large trusses. Green foliage. Five to six feet high. 10c each, \$1.00 per doz., \$6.00 per 100.

Scarlet and Gold

Duca De Otranto—A very lovely lily-shaped variety of golden orange, which changes to a glowing carmine. An interesting and wonderfully effective canna to grow. Green leaves. Four to five ft. high. 15c each, \$1.50 doz., \$7.00 per 100.

Panama—Large flowers with big rounded petals of strong terra cotta red color. The throat and edges of the petals are spotted with golden yellow. Leaves green. 10c each, \$1.00 doz., \$6.00 per 100.

Pink

Hungaria—A fine, clear pink. Flowers large with rounded petals. Dwarf, luxuriant, green foliage. Two to three feet high. 15c each, \$1.50 per doz.

Wabash—Large fine flowers, borne many in a truss, in color salmon-pink. Rich bronze foliage. Height four feet. 10c each, \$1.00 per doz., \$6.00 per 100.

White

Eureka—Full trusses of large flowers, an almost pure white. Very fine grower; green leaves; four to five feet high. 10c each, \$1.00 per doz., \$6.00 per 100.

Canna Collection—1 bulb each Uncle Sam, Gold Bird, Panama, Indiana, Wabash and Eureka—six varied colors for 50c postpaid. Two collections for 90c postpaid.

A & M DAHLIAS

ORDER EARLY

Dahlia bulbs are ready for shipment about March 1st. You may include them in your order for seeds and they will be sent when ready. We do not advise ordering these after May 15th.

Our offerings of Dahlias are only those varieties which we have found to be entirely satisfactory to planters in general. There are hundreds of worthless varieties with which the amateur is not familiar, and would consequently have more difficulty in choosing properly if they were included among the listings.

DAHLIA CULTURE

A bulletin on Dahlia Culture will be mailed free upon request and will be included with each order of Dahlias.



A & M Decorative Dahlias

A & M DECORATIVE DAHLIAS

The Decorative type of Dahlia is a large double flower, full to the center. Broad, flat petals with broad points or rounded tips. They flower freely on long stems and are a very popular type.

	Each
311 Avalon—Large clear yellow .....	.50
226 Charm—A pleasing combination of burnt orange shading to a beautiful yellow .....	.75
60 Coryphee—Large flowers of a dazzling scarlet, delightfully overlaid with light orange. A wonderful keeper.....	.75
107 Dr. Tevis—A beautiful shade of salmon rose, suffused with old gold shading to a golden apricot. A wonderful dahlia with long, stiff stems.....	.50
108 Earl Williams—White tipped crimson—a very striking combination of colors. An exceptional flower .....	.75
61 Eldorado—A distinct feature of this exquisite dahlia is the depth of the superb pure golden flowers. Very free flowering	1.00
314 Eleanor Vanderveer—A magnificent variety of exquisite beauty and great size. The glorious satiny rose flowers are always prominent at all exhibitions. Very early .....	.50
313 Empress Eugenia—Beautiful Rosaline purple .....	.75
300 Flaming Meteor—Flame scarlet and orange buff. Center petals pointed in sunburst effect, outer petals flat. A prize winner wherever shown	1.00
62 Gold Rush—Clear lemon yellow flowers borne on tall growing bushes which are very attractive in garden.....	.35
112 Halvella—A charming novelty of old rose pink with a golden sheen, on long, stiff stems.....	.50
63 Hanny Van Waveren—Dainty amaranth pink shading to deeper center. Flowers are freely produced .....	.35
73 Islam Patrol—Deep scarlet tipped and flushed gold. One of the most striking Dahlias grown. Good keeper	1.00
76 Jane Cowl—Immense glistening bronze and old gold. Very graceful flower on good strong stem. An exhibition variety	2.00
74 Jean Kerr—Pure white .....	.50
212 Jersey's Beauty—This dahlia is one of our outstanding offers. It is one of the most perfect dahlias in existence. The blooms are of perfect form and the color is a very pleasing eosine pink, carried on long and exceptionally strong, wiry stems. If you grow no other dahlia our recommendation would be to by all means plant one of these .....	.60
83 Jersey's Beacon—Very vigorous, and a free and early bloomer. Brilliant scarlet with buff reflex, giving a beautiful two-tone effect. A very large deep shaggy dahlia with good stems .....	.75
316 Jersey's Jewel—Mallow pink, very large, long petaled, flowered on good stems. A splendid exhibition variety.....	.50
64 Lillian Van Marter—One of the most perfect and satisfactory varieties grown. Blooms are a deep lilac on long straight stems .....	.50
75 Lord Byron—Chrome yellow shading to deeper center. The petals roll back towards the stem. The flowers stand on top of very erect and long stems.....	2.50
320 Mr. H. C. Dresselhuys—Fine pink. Blooms more freely than Delice .....	.50
123 Mr. Crowley—A bright glowing salmon pink, shading to yellow at the base of petals; the habit is dwarf. The medium size flowers are held erect on strong stems .....	.35
125 Mrs. Carl Salbach—Mauve, or lilac pink. A popular variety with long stems, much used for decorative work .....	.35
126 Mrs. I. de Ver Warner—Deep mauve pink. One of the best .....	.50
87 Orange Boven—Attractive shade of fiery orange scarlet. The flowers are large and double with full centers. Fine florists' variety.....	.50
65 Princess Aline—A choice clear rosy-pink shading to a lighter edge. Medium size flower with perfect stem.....	.75
66 Princess Geranne—Phlox pink shade with rich purple center. Flowers of good substance .....	.50
67 Queen of the Garden—An outstanding pale lemon yellow dahlia of mammoth size. Without special culture the blooms will come 8-11 inches across and they are well held on unusually strong stems	1.00

A & M Dahlias -- Continued

	Each
89 Robert Treat —Strong growing variety of spreading habit. Bright American Beauty color. A real acquisition to any collection .....	.50
137 Rosa Nell —A popular variety, pure bright rose in color. A strong grower with long stems.....	.50
68 Salbach's White —One of the best all round whites. Medium size and very free flowering	1.00
96 Trentonian —A giant flower; splendid for exhibition purposes. Brilliant combination of color from old gold to reddish bronze .....	.75
132 Tryphinnie —A lovely flower of bright shell pink, shading lighter at the tips of the petals. At the base throughout the petals is seen a bright golden yellow. The reverse of the petals is a rich pink. The stem is rigid and strong .....	.50
221 Tommy Atkins —Flaming scarlet with a metallic lustre that fairly glistens. A marvelous dahlia	1.00
134 T. A. Leonard —A vivid crimson variety, popular both for its color and vigorous growth .....	.75

A & M CACTUS & HYBRID CACTUS DAHLIAS

The true Cactus type flowers are fully double, petals long, narrow, incurved or twisted, with sharp, divided or fluted points.

The Hybrid Cactus type flowers are fully double but the petals are shorter than those of the true Cactus type and are broader and more flat, though recurved and twisted. The stems of this type are usually strong and the plants prolific bloomers.

	Each
144 Daddy Butler —A beautifully formed dahlia of rosy carmine. The twisted petals showing a lighter reverse. Good stem .....	.75
230 Emma Marle —A delicate rose pink shading to a white center. A marvelous flower and should become exceptionally popular. A fine keeper .....	.50
150 Golden West —This magnificent, large flowering dahlia has been on the market long enough to be well-known and the bulbs sell readily. The color is a yellow and orange buff. The flowers are very double and the stems are good .....	.35
251 Helium —Brilliant combination of orange over chrome yellow very prolific. Long stiff stems .....	.50
252 Inkyo —Very vigorous grower. Flowers are a deep maroon with stout stems .....	.75
246 Jean Chazot —Hy. Cac. A free upright grower of beautiful golden bronze suffused nasturtium red. One of the best all round varieties .....	.50
240 Mahogany —Deep rich red hybrid cactus. Always popular .....	.75
253 Mariposa —Delightful shade of pink intensified by a deeper center with a trace of violet. Perfect form.....	1.00
258 Orange Gold —Hy. Cac. Exceedingly fine cut flower variety of a rich light orange; nicely stemmed. This superb dahlia should be in every collection .....	.75
159 Primrose Dame —Primrose yellow overlaid with pink. One of the new cut flower varieties.....	.35
255 Princess Pat —Exquisite shade of Old Rose tinted buff. Flowers are large and of perfect form.....	.50

A & M SHOW DAHLIAS

Show Dahlias are round and compact forming a ball in appearance; the petals are quilled giving the flower the appearance of a large Pompon. The blossoms are usually held on long stiff stems—a very good cutting or garden show variety.

	Each
22 A. D. Livoni —Very delightful pure pink.....	\$.35
23 B. P. O. E. —Elk's purple. Very desirable color.....	.50
27 Maude Adams —One of the most popular cutting varieties. White, faintly flushed pink .....	.50
29 Mrs. J. P. Smith —A very large striking cherry red flower of wonderful type and stems. One of the very finest shows .....	.35
32 A & M White —Perfectly quilled Dahlia of pure white. Large ball-shaped flower .....	.50
325 Gold Medal —A charming variety—good in every way. Orange edged with bright red .....	.50

A & M POMPON DAHLIAS

These are the babies in the Dahlia world. Pretty, compact flowers of the show type are borne on long, stiff stems holding the blossoms upright and making a most wonderful display of color in garden. They are very fine for house decoration and the flowers will hold up a long time in water without wilting or burning the stems. No garden in California should be without Pompons. They are so different and so dainty.

	Each
292 Alice Rockwood —Pleasing shade of old rose	\$.35
327 Anna Von Schwerin —True pink .....	.75
173 Aimee —Bronze .....	.35
172 Amber Queen —Amber shaded apricot .....	.35
293 Elizabeth Pape —Miniature hy. cactus. Coral pink .....	.50
177 Bobbinette —Light rose pink tipped deep purple .....	.35
168 Catherine —Rich golden yellow .....	.25
296 Challenge —Dark red .....	.35
176 Clarissa —Primrose yellow .....	.35
280 Dandy —Perfect orange .....	.75
277 Darkest of All —Almost black.....	.50
279 Dee Dee —Pure lilac .....	.50
179 Delicacy —Light silvery phlox purple .....	.25
285 Irene —A miniature decorative rose.....	.35
328 Jeweeltje —Miniature decorative, of light pink.....	.50
185 Joe Fette —Fine form. Pure white .....	.35
182 Little Beauty —Pure pink .....	.35
294 Little David —Deepest orange, very free flowering .....	.50
190 Scarlet Gem —Fine scarlet.....	.50
191 Tommy Keith —Red tipped white.....	.35
298 Vivid —Bright scarlet .....	.35
291 Yellow Gem —(New). Pure yellow.....	.50



A & M Pom Pon Dahlias

A & M California Grown Roses

Not only has California become headquarters for the production of all kinds of seed for distribution throughout the country, but it has in a measure also become headquarters for the growing of rose bushes for shipment to all parts of the United States. Many carloads of rose bushes are shipped from Southern California each year and this should indicate to the home gardener that soil and climatic conditions in California are ideal for roses.

Our offerings are roses of strictly No. 1 Grade. You will find our prices more than reasonable and if others are offered for less money a comparison of quality should be made.

PLEASE NOTE

Planting directions are enclosed in each package.

The bushes we offer are on sale from January 1st to March 25th only.

Please add 10c to each order for packing and postage.

New and Outstanding Varieties

A Selection of Magnificent Roses

OLYMPIAD—The Rose of the Year. Many have tried to describe the remarkable color of this famed introduction, but it may be portrayed as a dark oriental scarlet with a lovely bright golden base. The buds are long and pointed opening to broad petals with a marvelous velvety sheen. In all respects it is the perfect rose. Each \$2.00.

DR. EDWARD DEACON—A rose with a captivating color, the margin of the petals being a delicate shrimp-pink merging to a deep salmon-orange towards the base of the petals. Free flowering. Each 85c.

DUCHESS OF ATHOL—A distinct and charming color of old golden bronze flushed peach pink. Vigorous grower. Awarded certificate of merit by the National Rose Society of England. Each \$1.00.

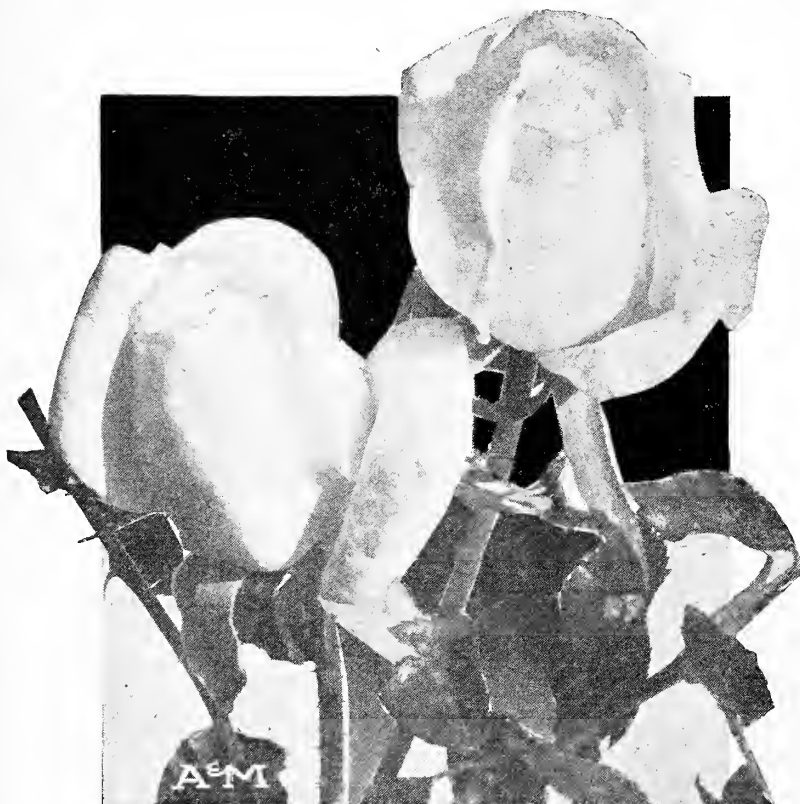
EDITH NELLIE PERKINS—A new combination of shades, the long pointed buds being a cream and blush opening to a rich carmine pink suffused gold. Very fragrant. Ea. \$1.00.

E. G. HILL—Very popular rose with long and nicely formed buds of glowing scarlet. Does not fade or turn purple. Each 85c.

IMPRESS—An English novelty that will please every rose lover. The buds are cardinal red suffused orange opening to full double blooms of salmon cerise with golden sheen. Green glossy foliage. Each 85c.

PRESIDENT HOOVER—A splendid combination of cerise pink, copper, scarlet and yellow. Beautifully pointed buds and delightfully fragrant. Each \$1.25.

TALISMAN—One of the recent sensations in the rose world. Remarkable colorings of gold, apricot, deep pink and old rose. Glossy green foliage. Each 85c.



GENERAL LIST OF SUPERIOR ROSES

All of the varieties listed below represent the finest introductions of recent years and we recommend them with every confidence.

AMERICAN BEAUTY—Deep pink to soft carmine, with delicate veining to dark red on the broad petal. This is the original American beauty which is still popular in many districts. Each 50c.

ANGELE PERNET—Vivid orange yellow, shaded fiery deep reddish apricot. This is a combination of colors very difficult to describe, but it is a most beautiful rose. A moderately strong grower, buds long, opening into a full, sweet scented flower. Each 65c.

BETTY UPRICHARD—Inner face of petals delicate salmon pink, outside brilliant carmine with orange suffusion. Fragrant. Each 50c.

CONSTANCE—Beautiful free flowering variety with long orange yellow buds streaked crimson. Medium size flowers. Each 50c.

CUBA—Unequaled as a bedding variety for brilliant massing effect. The flowers are semi double of a scintillating vermilion scarlet on orange ground. Each 65c.

DAME EDITH HELEN—Introduced in 1926 this magnificent rose has won an unprecedented number of honors both in Europe and in this country. The color is an engaging soft rose pink and the immense flowers are delightfully scented. The plant is very vigorous. Ea. 65c.

DUCHESS OF WELLINGTON—Intense saffron yellow stained with deep crimson, changing to a deep coppery saffron yellow as the flowers develop. The flowers are full, with large petals, good substance, delightfully fragrant and very free flowering. Each 50c.

ETOILE de FEU—A rich flaming orange-pink. Bears profusely. Very vigorous plant with beautiful foliage and altogether a very distinguished rose. Each 65c.

ETOILE DE HOLLAND—This strong healthy grower produces blooms of a brilliant crimson red. Richly scented. Each 75c.

FEU JOSEPH LOOYMANS—Remarkable for its long pointed buds of glowing orange buff and moderately double yellow flowers. Fragrant and excellent for cutting. Exceptionally fine. Each 65c.

FRAU KARL DRUSCHKI—Snow white. Flowers are extremely large yet beautifully formed. The growth is strong and vigorous with abundant foliage. Sometimes called the White American Beauty. Each 50c.

GENERAL McARTHUR—A well known and popular rose of bright crimson scarlet and delightfully scented. This is one of our best blooming varieties. Each 50c.

GOLDEN EMBLEM—A most beautiful deep golden yellow, occasionally flaked with crimson on the outer petals. Large

well shaped buds and flowers on long stiff stems. Foliage is a rich glossy green. Each 50c.

HADLEY—Deep velvety crimson, retaining its color at all seasons. The buds are well formed, large, full and long. It is a free bloomer and fragrant. Ea. 50c.

HOOSIER BEAUTY—This remarkable rose is distinctly different in coloring, being a glowing crimson with darker shadings. The buds are large, long and pointed. Blooms are very full when open. Each 50c.

IMPERIAL POTENTATE—Magnificent rose of recent introduction. The color is a deep shining rose-pink, shaded lighter on reverse of petals. Very fragrant. Each 50c.

IRISH CHARM—A gem of exquisite form. It is of strong branching habit. The petals merge from a rich apricot to delicate pink. Each 65c.

IRISH FIREFLAME—A glorious single-flowering variety, bearing flowers in clusters of five or more, and splendid for cutting in sprays in bud form. Buds are wonderfully rich in coloring, being a deep orange splashed with crimson, opening to a satiny old rose. Each 50c.

JOHN RUSSELL—One of the handsomest and darkest of reds. Large and lovely shaped double flowers. Each 65c.

J. OTTO THILOW—Beautifully formed buds of flowing rose pink. An exceptionally fine rose. Each 75c.

ROSES---Continued

JULES GAUJARD—This Pernet introduction is distinct and lovely. The glistening cochineal crimson buds develop into full roses of pretty orange-rose. Sweetly scented. Each 75c.

KAISERIN AUGUSTA VICTORIA—Probably the best creamy white rose grown for garden purposes in Southern California. The buds are large, of good form, the plant is a vigorous grower and the stems are good. Each 50c.

LADY FLORENCE STRONGE—Novel color of reddish brown to violet-old rose. Flowers are high centered and fragrant. Each 65c.

LADY HILLINGTON—A most popular rose wherever it is grown, the color being a deep orange yellow, buds long and pointed, very sweetly scented and holding its color well. A free bloomer. Each 50c.

LADY MARGARET STEWART—Unique coloring in buds of deep sunflower yellow, deeply veined and splashed orange scarlet. Delicately scented. Each 65c.

LOS ANGELES—A luminous flame pink toned with coral and shading to gold at the base of the petals. The buds are long and pointed and expand to a very large flower. It is beautiful from the opening of the bud until the last petal drops, and if properly pruned and cared for will produce wonderful stems. Each 50c.

LOUISE CATHERINE BRESLAU—Coral-red, shaded chrome yellow. Long oval buds developing into fragrant globular flowers. Robust grower. Each 50c.

LULU—A recent introduction, bearing splendid long buds of brilliant orange pink shaded copper. This is a fine free flowering rose which is highly resistant to disease. Each 65c.

MADAME ALBERT BARBIER—Blossoms without intermission throughout the season. The delightfully formed buds are pearly white suffused salmon pink—a beautiful blend. Sturdy bush. Ea. 75c.

MARGARET MCGREY—We consider this one of the finest all round roses offered. The fascinating shade of rich oriental red is unequalled and the full double sweetly scented blooms are borne on long stems, making it excellent for cutting. Each 75c.

MISS ROWENA THOM—A cross between Los Angeles and Radiance and combines the good points of each. The long shapely buds open to perfect double flowers of matchless oriental rose with the petal base a suffused gold. Free bloomer and fragrant. Each 75c.

MRS. AARON WARD—A very fine rich yellow. Medium size in bud and excellent for cutting. Each 50c.

MRS. A. R. BARRACLOUGH—Sparkling color of carmine pink passing to yellow at the base. Well formed buds and very fragrant. Rampant grower. Each 75c.

MRS. BEATTY—A wonderful self-colored lemon yellow. Very meritorious rose with a delightful perfume. Each 65c.

MRS. CHARLES RUSSELL—Beautiful rose with large well-formed flowers of rosy carmine. Fragrant. Each 50c.

MRS. ERSKINE PEMBROKE THOM—One of the finest yellow roses offered. The color is a rich deep lemon well set off by the healthy dark bronze foliage. Each 75c.

MRS. LOVELL SWISHER—California rose of unusual merit. The color of the shapely buds is a bronze salmon merging to salmon pink at the tips. Very fragrant. Each 65c.

NORMAN LAMBERT—This rose is characterized by a novel coloring of deep chrome yellow with a marginal effect of brilliant orange scarlet. Each 75c.

PADRE—Beautiful and novel coloring, entirely different from any other rose, this being a brilliant coppery red, flushed with yellow at the base. The habit of growth is vigorous, the flowers are large and the buds long and pointed. Each 50c.

QUEEN ALEXANDRA—A most attractive color combination of vermillion, with a deep orange base. The petals are reflexed and the reverses are shaded deep old gold. Free blooming and fragrant. Each 50c.

RADIANCE—Large cup shaped flowers of soft carmine pink and one of the very best garden varieties. The growth

is vigorous and erect, with large spreading branches and flowers are produced on good long stems. Each 50c.

RED RADIANCE—A velvety glowing crimson with all of the magnificent qualities of the Radiant Pink. The flowers are full and extremely double. Each 50c.

REV. F. PAGE-ROBERTS—Superb exhibition rose of coppery red shading to a rich yellow at the base. Glossy foliage free from mildew. Each 75c.

ROSE MARIE—A pleasing clear rose-pink and one of the very popular roses for the California garden. Remarkably free flowering, producing large, long, pointed buds which develop into full flowers of beautiful form. Each 50c.

SHOT SILK—Color orange-rose overshot with golden-yellow and flushed soft rose. Handsome shaped bud and very vigorous growth with attractive foliage. Each 50c.

SIR DAVID DAVIS—One of the best glowing crimson bedding varieties. The flowers are fragrant and of good form and size. Each 65c.

SOUV. DE CLAUDIUS PERNET—One of the finest deep yellow roses introduced in recent years. It holds its color well in bud and open blossom, and does not fade as do so many yellow varieties. The plants are of branching habit with a very pretty foliage. The buds are long. Each 50c.

SOUV. DE GEORGES PERNET—Exquisite blooms of orient red, shaded carmine and yellow. It is a free bloomer, the foliage is a pretty bronze green and there are few thorns. Each 50c.

UNA WALLACE—A beautifully formed rose of luminous old rose color, without markings of any kind. Slightly fragrant, a profuse bloomer and a color that is quite different from any other variety. Each 50c.

VICTOR WADDILOVE—Buds of exquisite form, long and pointed. Imperial pink color flushed crimson and orange. Free flowering. Each 65c.

VILLE DE PARIS—An outstanding rich buttercup yellow rose. Excellent for cutting and blooms profusely throughout the season. Each 75c.

WM. F. DREER—In general form this rose is very similar to Los Angeles. A deep golden yellow, heavily flushed and shaded deep peach and old rose. Each 50c.



Duchess of Athol

Special Rose Collection

We offer in an unbroken collection six of the most popular roses of recent years.

HADLEY —Deep red	50c
HOOSIER BEAUTY —Crimson	50c
LOS ANGELES —Pink	50c
GOLDEN EMBLEM —Yellow	50c
PADRE —Copper	50c
RADIANCE —Carmine	50c

\$3.00 value for \$2.00 postpaid.

CLIMBING ROSES

BELLE OF PORTUGAL—A very fine climbing rose which has come into popular favor within the past few years. The flowers are very large, of a soft pearl pink in color and are produced on long stems. It is a free bloomer, particularly in the spring time. Ea. 65c.

CL. CECILE BRUNNER—One of the strongest growing roses and very free bloomer. Baby size flowers, a clear pink. Each 50c.

CL. DAME EDITH HELEN—Lovely soft pink, charming in every stage of development. Each \$1.00.

CL. GEN McARTHUR—Possesses all of the good qualities of the bush variety and is very beautiful as a climber. Each 50c.

CL. GOLDEN EMBLEM—Deep golden yellow flaked with crimson. The buds are large and well shaped. Each 65c.

CL. HADLEY—Same as the well known bush variety. Each 65c.

CL. HOOSIER BEAUTY—Deep crimson with darker shadings. Just like the bush variety. Strong and vigorous. Each 60c.

CL. K. A. VICTORIA—One of the best creamy white climbers. Each 50c.

CL. LOS ANGELES—It has all the excellent qualities of the original bush variety, makes a heavy growth and produces lovely flowers of luminous flame-pink, toned with coral at the base of the petal. For further description see the bush varieties. Each 65c.

MARECHAL NIEL—Deep yellow climber. Probably one of the best known roses in existence. Very large and wonderfully fragrant. Each 50c.

CL. MME. ED HERRIOT—A handsome rose of coral red shaded yellow and rosy scarlet. Each 50c.

CL. PAUL'S SCARLET—Perhaps the most brilliant rose grown in Southern California. Color is a vivid shining scarlet, in large semi-double flowers which remain unusually long and in good condition on the plant. Each 50c.

CL. RED RADIANCE—Velvety glowing crimson equal to the bush form. Each 50c.

CL. ROSE MARIE—Charming clear pink. The buds are long and pointed as in the bush form. Each 65c.

SOUV. DE CLAUD. DENOVAL—Rich glistening crimson tinted vermillion. Long handsome buds. Each 65c.

CL. SOUV. DE CLAUDIUS PERNET—Climbing counterpart of the wonderful bush form. Beautifully formed buds of pure deep yellow. Each 65c.

CL. SOUV. H. A. VERSCHUREN—Beautiful yellow and very strong climber. Each 50c.



Tigridia Pavonia

BEGONIA (Tuberous Rooted)

These are very satisfactory as summer bloomers. For outside beds, plant in a shaded location, covering the bulbs about one-half inch deep. Water lightly until growth starts. After the foliage has died down in the fall, lift them and store in dry sand. Tuberous Begonias make very good pot plants. Use a five-inch pot for each bulb filled with rich sandy loam and give the plants light but not direct sun. No bulb is more satisfactory for pot culture.

Single Begonias

Single Rose	20c each, \$2.25 dozen
Single Crimson	20c each, 2.25 dozen
Single Scarlet	20c each, 2.25 dozen
Single Yellow	20c each, 2.25 dozen
Single Salmon	20c each, 2.25 dozen

(Collection—one each of the above five colors for 90c postpaid)

Double Begonias

Double Rose	25c each, \$2.50 dozen
Double Crimson	25c each, 2.50 dozen
Double Yellow	25c each, 2.50 dozen
Double Scarlet	25c each, 2.50 dozen
Double Salmon	25c each, 2.50 dozen

(Collection—one each of the above five colors for \$1.10 postpaid)

Double Crested Mixed, 3 for 70c, \$2.50 doz.
Double Frilled Mixed, 3 for 70c, \$2.50 doz.

LILIES

Lilies should be planted eight to ten inches deep in soil which has been mixed with well rotted manure and sand, and they should not be disturbed. If planted in pots, observe same conditions, only covering to a depth of one inch. The pots should be plunged in soil and not watered until growth appears. On sale January to March.

Lilium Rubrum

"Red Japan Lily"—Flowers white, shaded and spotted with crimson, very fragrant. One of the best for cut flowers as the flowers do not all open at once. 25c each, \$2.50 dozen.

Lilium Tigrinum

This is the lovely Tiger Lily bearing handsome orange salmon flowers spotted black. It is a good pot or garden variety, a free bloomer, and grows very tall. 25c each, \$2.50 dozen.

Lilium Speciosum Album

Beautiful snow-white flower with a golden green stripe in the center of the petals and anthers of bronze color. 35c each, \$3.50 per doz.

Lilium Henryi

Very tall growing Lily with fine foliage. When well established it bears more than twenty flowers of deep orange-yellow. Plant 10 inches deep and shelter from wind. 35c each, \$3.50 per doz.



Lilium Auratum

Lilium Auratum

Gold Banded Lily of Japan. Flowers white, spotted crimson, with pure gold band running through center of each petal. Very fragrant and most beautiful of all Japanese lilies. 25c each, \$2.50 doz.

TIGRIDIA PAVONIA (Shell Lily)

Tigridias are closely related to the Iris. They are very attractive and interesting and bloom over a long period.

The Pavonia variety is a bright scarlet spotted with orange. Bulbs should not be planted until the ground has warmed up in the spring. 20c each, \$2.00 dozen.

ANTIGONON LEPTOPUS

Called Queen's Wreath and Rosa de Montana. A rapid growing and lovely vine with heart-shaped leaves and bearing quantities of rose pink flowers in wreaths. Blooms in the summer and fall. A vine which will thrive in hot, sunny situations and if cut down by frost will come up again in the spring. Strong roots. Each \$1.00.

TUBEROSES

Mexican Everblooming

The most fragrant of all tuberose and a wonderful bloomer. Flowers are pure white and clustered from six to a dozen on stiff stems, making them excellent for cut flowers. The bulbs of these multiply from year to year, producing great masses which should be separated and transplanted every three years. They are very hardy and will grow and bloom in the warm inland valleys equally as well as on the coast. A dozen bulbs will plant a row six feet long. 10c each, 75c dozen.

ZEPHYRANTHES

Fairy Lilies

Candida—Beautiful white flowers and attractive foliage, making it a very desirable plant for borders and beds. Height about 1 foot. Long blooming season. Bulbs multiply rapidly. 75c dozen, 100 for \$5.00.

The Dahlias I received from you are still blooming. I took one First, three Seconds, and one Award of Merit in the Amateur Class, and two Seconds in the Open Class at the San Diego Flower Show for Dahlias. I won the Silver Cup for the best Amateur Display of Dahlias at the La Mesa Show, August 29, 1930.—MRS. B. BUTTERFIELD.

Berries

WRITE FOR QUANTITY PRICES

We can supply the following plants in large or small quantities. Our offerings are limited to what we consider the very best varieties in each case. No plants will be sent C. O. D.

YOUNGBERRY

A New Berry of Exceptional Merit

This new type of fruit was produced scientifically by crossing the 'loganberry' with the dewberry, and it combines to a remarkable degree the most desirable qualities of all other berries. Its sweetness makes it a fine fresh table berry comparable to the strawberry. It also has the pleasant flavor of the red raspberry, the juiciness of the loganberry, and the jelling and canning qualities of the blackberry.

One year old plants produced at the rate of 20,400—8 oz. baskets to the acre and it is estimated that two year old plants give a fifty per cent heavier yield. The season for ripening in Southern California is from the middle of May to the middle of July. No special method of culture is required, but good soil cultivation and a moderate amount of moisture will give desired results. Set the plants 5 or 6 ft. apart in rows 8 ft. apart, for commercial use. In the home garden the plants can be trained much higher than in the field and they can, therefore, be set closer together in the rows. Plant during January, February and March.

Each 15c, 6 for 75c, dozen \$1.25, 25 for \$2.25, postpaid.

RASPBERRIES

Set the plants 4 feet apart in the rows and support on parallel wires. When the new growth reaches a height of 2 or 3 feet pinch out the tips to induce lateral growth. The laterals should also be pinched off. After the crop is harvested remove the old wood so that all the energy of the plant will be forced into the new growth.

St. Regis Raspberry Very early, fruit round oval and large; color a clear magenta red. A very pronounced flavor. Each 15c, 6 for 75c, doz. \$1.25, 25 for \$2.25, postpaid.

Cuthbert Old standard variety bearing large deep crimson berries of fine flavor. Ripens over a long period. Each 15c, 6 for 75c, doz. \$1.25, 25 for \$2.25, postpaid.

Black Cap Raspberry Familiar to many who have grown them in eastern climates. Each 15c, 6 for 75c, doz. \$1.25, 25 for \$2.25, postpaid.

LOGANBERRIES

A wonderful berry and entirely in a class by itself. Runners should be trellised on wires. When fruiting season is past remove the fruiting canes and wind the new canes around the wire. Set plants 6x8 feet.

Each 15c, 6 for 85c, dozen \$1.50, 25 for \$2.85, postpaid.

BLACKBERRIES

Crandall's Early A large fruited luscious berry of rich dark color. It is one of the earliest varieties and very productive. Each 15c, 6 for 75c, doz. \$1.25, 25 for \$2.25, postpaid.

STRAWBERRIES

A & M Progressive The A & M Progressive will bear a full crop the first year if properly handled. Because it does not make many runners, the plants should be set close, say 10 to 12 inches in the row and about 22 inches between rows. This distance apart requires 20,000 plants to the acre. Encourage runners and new plants by frequent irrigation and fertilizing. Never cut off the runners, but rather train them along the row. 12 plants 40c, 25 plants 75c, 100 plants \$2.50, postpaid.

A & M Mastodon New strawberry of huge size. Unlike other everbearing varieties, the plants are large and heavily crowned. Notwithstanding its size it is extraordinarily prolific, bearing strongly throughout the summer to early fall. The quality of the berry is supreme. 12 plants 50c, 25 plants 80c, 100 plants \$2.75, postpaid.

Improved Klondike This variety does well in hot sections. It is a vigorous grower, very prolific and yields over a long period. A medium size berry of good flavor and is an excellent shipper. 25 plants 50c, 100 plants \$1.75, postpaid.

Blakemore (New)—This strawberry was introduced by the North Carolina Department of Agriculture. It is an extraordinarily firm berry, therefore is supreme for shipping purposes. It is very productive and starts bearing early in the season. The berries are a bright color and of excellent flavor. Not everbearing. 12 plants 50c, 25 plants 90c, 100 plants \$3.25, postpaid.



1. Place
HOTKAP
in Setter.



2. Cover
Outside
Edge of
HOTKAP
With Soil.



3. Tamp Soil
Around
Edge of
Setter.

Hotkaps Protect Plants

HOTKAPS are patented wax paper cones that completely cover each plant—the only way to fully protect them from frost. They are an "individual hothouse for each plant," protecting them not only from frost, but from wind, rain, ground-crusting, and insects as well. This is your assurance of earlier, bigger crops and early-to-market prices.

HOTKAPS are quickly and easily "set." One man can set over 3,000 of them a day. The illustrations on the left show how they are placed with the aid of the HOTKAP Setter and Tamper.



Prices f. o. b. Los Angeles. Send postage extra if wanted by mail.

1,000—\$11.00 per 1,000

5,000—\$10.75 per 1,000

10,000—\$10.50 per 1,000

250 Trial Package, including Garden Setter with Tamper, \$4.00. 100 Home Package, including Garden Setter with Tamper, \$2.50. No quantity sold less than 100.

Hotkap Steel Setter with Tamper—\$2.50. Home Garden Setter—50c. Postage extra.

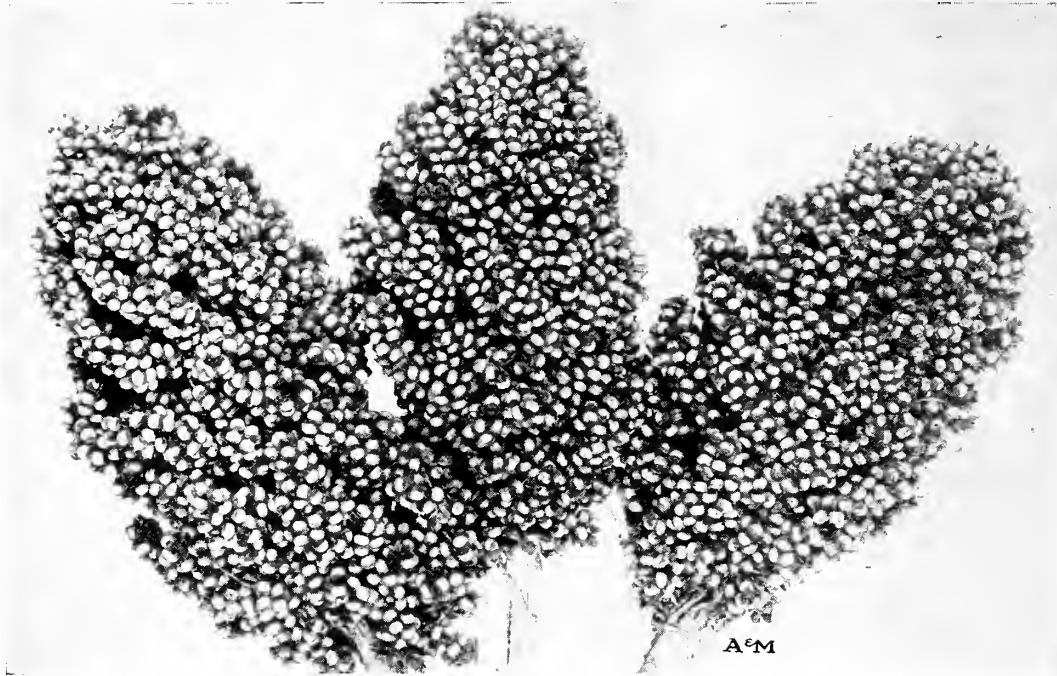
Weights—1,000 package Hotkaps, 28 lbs.; 250 package, 9 lbs.; 100 package, 5 lbs.; Steel Hotkap Setter, 3 lbs.

GLASSINE FLAT PAPER PLANT COVERS

Glassine Flat Paper Plant Covers. An inexpensive and economical protection. These are not Hotkaps and have to be folded. Packed 1,000 to bundle. F. O. B. Los Angeles.

Size	Approx. Weight	100 Price	1,000 to 4,000	5,000 to 9,000	10,000 or more
15 x 16	15 lbs. 3 ozs.	40c.	\$3.25	\$3.00	\$2.80
16 x 18	17 lbs.	45c.	3.75	3.50	3.10

FARM SEEDS



The
Heaviest
Yielding
Maize
Grown
Specially
Selected
by us
for Years

A & M SELECTED DWARF MILO MAIZE

Since the cost per acre of Milo Maize Seed is very small it certainly pays to secure the best seed obtainable. Where the soil is properly prepared it requires but 3 to 4 lbs. per acre, therefore, the cost of seed would be but a few cents, hence Milo Maize Seed should be considered entirely from the quality standpoint. Yield of grain per acre is what you want and you cannot afford to experiment on strains that are being grown by inexperienced growers.

Being of uniform height it may be harvested by machinery but, if harvested by hand, the large heads reduce the cost of harvesting. It grows to a height of about 4 feet, is of stooling habit, and individual hills of 5 to 7 stalks in a stool each producing a large compact head are not uncommon throughout the field. We have had reported yields of two tons of threshed maize per acre and where the soil and climatic conditions are favorable we feel that this is a very conservative estimated yield. Very often there is a temptation among farmers and others to save their own seed of Milo Maize or to plant seed that has been produced in their own district, but since it is very easily crossed with other sorghums this is a bad practice and we advise against it. We produce our seed maize in isolated districts where there are no other sorghum crops grown near and by hill and head selection each year, the strain is kept uniform and true. Considering again that it requires but a few cents per acre to plant the very best milo maize seed there appears to be no good reason why the planter should experiment with untried strains. If you are going to plant Maize, let us send you a sample of our seed and quote prices on quantity.

(Lb. 25c) (10 lbs. \$1.75) (25 lbs. \$3.00) postpaid. Write for quantity price.

DOUBLE DWARF MILO MAIZE

This variety of red milo maize is very dwarf, growing only 2 to 2½ feet high and has been developed especially for convenience and economy in harvesting. It can be cut and harvested by machinery in the same manner as heading grain. Very profitable crop to grow, the average yield being two tons per acre. Sow at the rate of 4 to 5 lbs. per acre from April until middle of June. (Lb. 25c) (10 lbs. \$1.75) (25 lbs. \$3.00) postpaid. Write for quantity price.

SACCHARINE SORGHUM

CULTURE: All sorghums, saccharine or non-saccharine, should be sown in rows 30 or 36 inches apart, using five or six pounds of seed per acre. If irrigated it is necessary to cultivate it after each irrigation. It is advisable to give a shallow cultivation every two or three weeks until it becomes too large. The sorghum is ready to cut for the silo when the seed has matured.

Honey This variety is very desirable because of the large yield of grain, as well as enormous growth of forage. It is given special recommendation in the Farm Bureau Monthly, and has proven highly satisfactory to all who grow it. (Per lb. 20c) (10 lbs. \$1.50) postpaid. Write for quantity price.

Early Amber The Early Amber has been grown in California for many years and has always proven entirely satisfactory. It grows twelve feet tall when allowed to mature, but it stools to a wonderful extent when cut about every four weeks. (Per lb. 20c) (10 lbs. \$1.50) postpaid. Write for quantity price.

READ

If you need forage for your horses, cattle or hogs, Sorghum planted about April 1st will furnish you the best feed in the shortest space of time. One-half acre will feed four head of stock all summer if only enough is cut each day for one day's need. In this way one can cut continuously all summer. As much as 40 tons may be cut from one acre.

NON-SACCHARINE SORGHUM

Egyptian Corn This is grown chiefly for the foliage to pasture when young, but yields largely of grain. The chief merit of these fodder crops is in their hardness to produce fodder and grain with almost no rainfall or irrigation. Sow four pounds per acre drilled. (Per lb. 20c) (10 lbs. \$1.50) postpaid. Write for quantity price.

Feterita Very popular on account of its astonishing growth after it becomes well rooted. Every testimonial received expresses astonishment at its rapid growth.

Sow 4 pounds of seed per acre drilled two feet apart; by so doing it yields 5,000 to 6,000 pounds of grain per acre. The crop is sometimes cut when green and fed or pastured and for this purpose it is sown 12 lbs. per acre.

The grain has about the same feeding value as Egyptian Corn or Milo Maize; yields from two to three tons of grain per acre. The seed is more susceptible to cold than other sorghums, therefore should not be planted so early, nor should it be planted in cold soil.

The second growth stools wonderfully, producing several tons of excellent forage for pasture or for ensilage after the seed has been harvested. It thrives luxuriantly on soil so alkaline that field corn will not thrive. The heads are upright. (Per lb. 20c) (10 lbs. \$1.50) postpaid. Write for quantity price.



Young Plant of Wonder Forage

A & M Alfalfa

INOCULATE WITH McQUEEN'S—SEE PAGE 82

Chilean or Common This variety has proven so entirely satisfactory to everyone for more than forty years that nothing better was looked for, and is indeed now so thoroughly satisfactory that many will hesitate to believe that any variety of alfalfa can be better.

We have often been asked where the seed which we sell was grown, some being under the impression that Alfalfa seed produced in particular sections is preferable, but we have found, through careful investigation, that such is not the case and no certain section is favored in producing superior seed.

If the stock is of high germination, free from noxious weed seeds, and true to name, that is the great consideration.

Broadcast 20 lbs. per acre.
A & M Superior Brand—Highland grown (lb. 40c) (10 lbs. \$3.50). A & M Fancy Brand (lb. 35c) (10 lbs. \$3.00). Write for quantity price.

Hairy Peruvian We first offered this variety in 1918. It is hardier and it does produce more hay the first year than common alfalfa, but it does not endure as well. Many large growers now prefer the common alfalfa. With these comments we offer the Hairy Peruvian Alfalfa to those who may have had better results and yet prefer it.

A Virginia Bulletin, No. 207, page 10, says: "Many failures in growing alfalfa may be attributed to lack of inoculation." Wherever we find successful old fields of alfalfa, if the roots are carefully dug up and examined the supply of bacteria nodules will be found to correspond to the vigor and quality of the plant. Broadcast 20 lbs. per acre. (Lb. 35c) (10 lbs. \$3.00). Write for quantity price.

The Wonder Forage Plant

A & M Wonder Forage is a great improvement over other sorghums, one acre of the former being equal to two or three of the latter. It stools from ten to forty full-sized stems, the thickness of a thumb and smaller, and when the main stems mature separate branches grow from each joint bearing more seed heads.

The stems are succulent and sweet as saccharine cane, not dry as non-saccharine cane, therefore, it is as good as sorghum for dairy cows.

Wonder Forage can be cut twice with good soil and ample irrigation.

For a rich green feed grow the Wonder Forage. Five pounds of seed are sufficient to drill an acre, or 20 pounds per acre broadcast.

(Per lb. 35c) (10 lbs. \$3.00) postpaid. Write us for quantity price.

Sudan Grass

Has made good and has become more popular each year. It is not particular as to soil—endures much alkali—an annual—planted during April, first cutting in sixty days may yield four tons of dry hay per acre and three to four tons may be cut each thirty days until October.

Five pounds of seed is required to drill an acre in order to produce hay of fine quality, or 20 lbs. per acre broadcast.

Sudan Grass thrives with excessive moisture and endures extreme drouth. In the months of August and September, when all other grasses are dry, then is the time that Sudan is most valuable for fall pasture for cattle and hogs.

Sudan Grass is ideal for growing with the Whip-Poor-Will Cow Peas. The stem is stiff enough to support the vines. (Per lb. 25c) (10 lbs. \$1.75) postpaid. Write for quantity price.

Clover for Forage

Melilotus alba This is a valuable addition to the farm as a forage crop. When quite young, it may be pastured or cut and cured for hay. This should be done just before the bloom appears. It is hardier than alfalfa, more drouth-resistant, and better for renovating the soil. It may be cut twice the first season and three or four times the second season, yielding 2500 to 3000 pounds of hay each cutting. It is as easy as alfalfa to eradicate, is biennial. On account of its hardness to resist extreme cold, heat and drouth it is grown largely for pasture. It is highly recommended by the Department of Agriculture. Sow 20 lbs. per acre. (Per lb. 35c) (10 lbs. \$3.00) postpaid. Write for quantity price.

Ladino Clover A new green feed for poultry. This recent introduction from Italy has proven to be a remarkable discovery as a green feed for poultry. It yields far more abundantly and withstands frost much better than Alfalfa. Each plant sends out runners 12 inches long and each joint takes a new root. Sow seed sparingly at 1 lb. to 1/4 acre to allow for this spreading. It can be cut continuously throughout the entire year and makes good pasturage. Needs plenty of moisture. (Per lb. \$1.10) (5 lbs. \$5.00) postpaid.

Hubam Clover Hubam is a rapid growing annual sweet clover attaining height of 7 feet. It is valuable as a catch crop, for pasturage and as a hay crop. The flowers are rich in honey and on this account it is sown freely by bee keepers. Planted in citrus groves in February or March it forms a perfect cover crop. Sow 12-15 lbs. per acre. (Per lb. 55c) (10 lbs. \$5.00) postpaid.

Red Clover (Common) There is a place for Red Clover, but not where alfalfa thrives.

It is hardier than alfalfa, therefore we recommend it for higher altitudes or farther north than the San Joaquin Valley where it will not be subject to the hot dry atmosphere of the interior valleys nor to the climate of Southern California. Sow 20 lbs. per acre. (Per lb. 50c) (10 lbs. \$4.50) postpaid. Write for quantity price.

Mammoth Red Clover In England and in English Colonies this clover is called "Cow Grass." The name recommends it to dairymen. The same instructions for common Red Clover apply also to Mammoth Red Clover. (Per lb. 50c) (10 lbs. \$4.50) postpaid. Write for quantity price.

Alsike or Swedish Clover This is one of the hardiest varieties known. It is perennial and does not winter kill. It will do better on moist land than any other variety of clover, and is suitable for either hay or pasture. When sown with other grasses it forms a thick undergrowth and greatly increases the yield. Sow 20 lbs. per acre. (Per lb. 50c) (10 lbs. \$4.50) postpaid. Write for quantity price.

CROPS FOR SOIL RENOVATION

Inoculate with McQueen's Inoculator—See Page 82

Winter Crops

Melilotus alba We have come to the conclusion that, except on sandy soils, it is better to broadcast the seed than to drill it. This is especially true where there is alkali. Sweet-clover seed should be very close to the surface. A light harrowing or dragging with a light brush drag, will mix the seed with the soil sufficiently for germination. It is better, too, to sow the seed in the fall and let the rains bring it up. It gets a better start that way.

Melilotus alba is being recognized more and more each season as a valuable soil renovator. Because of its large and extensive root system penetrating deep into hard subsoil, there decaying, permits moisture to enter and break up the hardpan that plowing may become deeper and more thorough. These roots have gathered nitrogen and add much humus, all of which is essential to building up new or run-down soil.

Melilotus has other uses in soil renovating; it will grow in alkali soil and reclaim it. Therefore if you have any land that will be benefited by Melilotus alba by all means plant it. Sow 20 lbs. per acre. (Per lb. 35c) (10 lbs. \$3.00) postpaid. Write for quantity price.

Melilotus indica Was introduced by us in 1909, has now become recognized as one of the best legumes for green manuring in the orchards of California, because it may be planted late in the fall after all crops have been harvested, will grow all winter with only the season's rainfall.

It prevents erosion during the rainy season, is easily plowed under, is richer as a fertilizer and if allowed to stand until July will prevent much of the June drop.

Melilotus indica is the best legume with which to build up your soil during the rainy season for the summer crop to follow, particularly potatoes and melons. Sow 20 lbs. per acre. (Per lb. 25c) (10 lbs. \$1.75) postpaid. Ask for quantity price.

Burr Clover A native clover and one of the best nitrogen-gathering crops. Needs but little moisture and will thrive on very poor soil. If your grazing lacks native grasses, plant Burr Clover. Sow 20 lbs. per acre. (Lb. 35c) (10 lbs. \$3.00) postpaid. Write for quantity price.

Canadian Field Pea When it is too late to plant Vetch or Melilotus plant Canadian Peas.

They may be planted as late as January and yet be plowed under in time for planting a summer crop. If your summer crop, like melons and potatoes are not harvested until November plant Canadian Peas.

Neither is the Canadian Pea inferior to other cover crops when planted at the right time. The right time is from September until February and on any kind of soil.

Notice—Do not plant just before a rain nor irrigate before they are well above the ground and established. If the soil is too wet after planting the seed will rot. Broadcast 50-60 lbs. per acre. (Per lb. 25c) (10 lbs. \$1.75) postpaid. Write for quantity price.

Purple Vetch The chief value of Purple Vetch lies in its rapid growth. It does not have the same tendency to stop growing when the thermometer registered around 26 degrees as do many other varieties of cover crop. However it does not stand quite as much cold as melilotus indica. It is one of the leading cover crops for planting during the rainy season in citrus orchards and for this purpose 60 lbs. should be sown to the acre. It is also a valuable crop for hay or silage. (Lb. 25c) (10 lbs. \$1.75). Write for quantity price.

Common Vetch This variety also makes an excellent cover crop for fall sowing and is commonly sown with oats, wheat, rye or barley. When grown together the vetch is held off the ground and at the same time fertilizes the grain crop. For this intention sow 30 lbs. grain and 20 lbs. vetch to the acre, or if planted alone, 60 lbs. of vetch per acre. (Per lb. 25c) (10 lbs. \$1.75). Write for quantity price.

Broad Windsor Bean Sometimes called Horse Beans, grows upright on a single stem bearing a profusion of large well-filled pods. The roots are enormously productive of nitrogen. It will withstand 28° temperature; therefore, may be planted as late as September for best results as a winter cover crop. Sow 60-80 lbs. per acre. (Lb. 25c) (10 lbs. \$1.75) postpaid. Write for quantity price.

Small Windsor (Small Horse Bean) This is identical with the Large Horse Bean except that it will not grow as large, but is preferred by many for green manuring because of the smallness of the seed it requires fewer pounds to plant an acre and it is argued that more plants per acre will produce more nitrogen. Sow 40-50 lbs. per acre. (Per lb. 25c) (10 lbs. \$1.75) postpaid. Write for quantity price.

White Mustard (Brassica alba). This white seeded mustard has yellow flowers and is thus sometimes called Yellow Mustard. It grows very rapidly and is now used extensively as a cover crop. (Per lb. 25c) (10 lbs. \$1.75) postpaid.

Trieste Mustard (Brassica juncea.) The most commonly used mustard. Although not so rapid in growth as the white mustard it makes a heavier tonnage. (Per lb. 25c) (10 lbs. \$1.75) postpaid.

Summer Crops

Whip-poor-Will Cow Pea For many years the Whip-Poor-Will has been the standard summer crop for green manuring not only here but throughout the South.

(1) It will grow on practically all kinds of soils, whether sandy or clay, poor or fertile.

(2) It is of the easiest culture.

(3) It has a big, strong, deep-root system, well supplied with large nitrogen gathering nodules.

(4) It revels in summer heat, and is extremely drought-resistant.

(5) It grows very rapidly, shading the soil from excessive heat, and leaving no room for noxious weeds.

(6) It greatly benefits the succeeding crop by accumulation of nitrogen in the soil.

(7) It leaves the soil in fine physical condition for the fall planting of grain or other winter crop.

(8) It produces an abundance of highly nutritious pods and leaves in a few months.

(9) It may be made into hay or ensilage, or pastured, the seeds may be used for stock feed or human consumption.

Plant 40 lbs. per acre any time from April 1st until Sept. 1st. (Per lb. 25c) (10 lbs. \$1.75) postpaid. Write for quantity price.

Brabham Cow Pea It has only recently been determined definitely that the Brabham is resistant to nematode. This discovery places the Brabham foremost as a desirable summer crop for green manuring. Few districts are free from nematode and while other crops nursed it thus spreading it over wider territory, the Brabham will discourage its development and if repeatedly planted may eradicate it from the field in which the Brabham is grown.

Under the light of the discovery that the Brabham pea is resistant to the nematode, to plant it would seem the wiser thing to do. Sow 40 lbs. per acre. (Per lb. 25c) (10 lbs. \$1.75) prepaid. Write for quantity price.



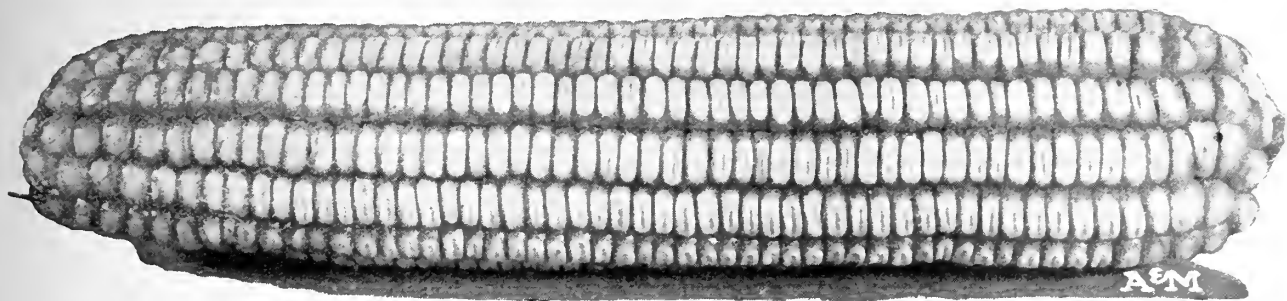
Cow Peas in Orchard

Sesbania Valuable cover crop for hot sections only. Seed is usually sown at the rate of 40 lbs. per acre in May or June. With five or six irrigations a dense tall growth is obtained in two months. Early in August the crop may be plowed under with a disk plow and the stalks will rapidly rot. Very worthwhile cover crop for orchard and lettuce land. (Per lb. 25c) (10 lbs. \$2.00). Write for circular.

The Blackeye This bean is always profitable to the grower because it yields 1500 to 2500 pounds per acre without irrigation, and on almost any kind of soil. It is a good cover crop and soil renovator. The beans find ready market at a fair price. Rabbits will not eat the Blackeye. Plant 30 to 40 lbs. per acre. (Per lb. 25c) (10 lbs. \$1.75) prepaid. Write for quantity price.

Soy Bean The Soy Bean is being more generally used as its merits become known. The importation of the Soy Bean from the Orient makes it unprofitable to grow for commercial beans or for seed but for early spring planting, for June cover crop and for green manuring it is very valuable and under certain conditions of soil may be preferred to clover or vetch. It is harder than the cow pea and on that account may be planted earlier. It is valuable to grow in young vineyards either to be plowed under or for green feed for dairy cows. Sow 40 lbs. per acre. (Per lb. 25c) (10 lbs. \$1.75) prepaid. Write for quantity price.

A & M Field Corn



Big Jim.
Sow 10-15 lbs. per acre.

ORANGE COUNTY PROLIFIC THE MOST SATISFACTORY SILAGE CORN

Orange County Prolific was introduced by us in 1911. At that time we had stalks on exhibition with nine ears of commercial size and others that were smaller.

The season just past indicates, by numerous testimonials, that Orange County Prolific corn leads all other varieties both for corn or silage.

We have a report that the Orange County Prolific planted July 25th produced 28 tons per acre. (Per lb. 25c) (10 lbs. \$1.75) postpaid. Write for quantity prices.

Mexican June The corn for the arid southwest. When the white man was a pioneer in Arizona and New Mexico, he tried to grow corn but failed. The country and climate were condemned; corn could not be grown, but thanks to the good work of the various state and federal experiment stations, we have the Mexican June. This has been bred up by years of selection from seed which has existed among the Indians from time antedating the Aztecs. Imperial Valley growers realized its merits some years ago. In Arizona, New Mexico and Texas, it is now grown where no other variety will thrive. (Per lb. 25c) (10 lbs. \$1.75) postpaid. Write for quantity price.

A & M Ensilage Corn This has long been a favorite for the silo and there is no other corn we know that will take its place. It is very stalky, stands up well and yields a heavy tonnage per acre. Under irrigation and on good soil it has produced more ensilage than any other corn. If you want ensilage and plenty of it plant A & M Ensilage Corn. (Lb. 25c) (10 lbs. \$1.75) postpaid. Write for quantity price.

Hickory King An early white corn with exceptionally large kernels. It is very prolific and besides being planted extensively for grain it is useful for ensilage and is also very fine for hominy purposes. Matures in 110 days. (Per lb. 25c) (10 lbs. \$1.75) postpaid. Write for quantity price.

Big Jim Very fine variety of yellow dent corn. The large ears averaging 12 inches in length are very prolific, producing an extraordinary heavy acreage yield. It is also very desirable for ensilage, as the stalks attain a great height with a big leaf growth. (Lb. 25c) (10 lbs. \$1.75) postpaid. Write for quantity price.

King Philip A yellow dent 90-day corn planted quite extensively in California for grain. (Lb. 25c) (10 lbs. \$1.75) postpaid. Write for quantity price.

Grain Crops

WHEAT

Sow 60 Pounds per acre.

Defiance One big drawback against growing wheat in California has been rust, but this has been largely overcome by planting the **Defiance** variety where cool, moist weather conditions prevail. This variety is practically rust-proof. Defiance is a late wheat and should be planted early and seeded thin. It is non-shattering and classed as a hard white wheat, and number one for milling. Write for prices.

Sonora This variety is recommended because of its large yield, earliness and drought resistance. It is susceptible to rust and inclined to shatter, but it has long been a standard variety in Southern California back from the coast. It is classed as a soft white wheat. Write for prices.

Early Baart Early Baart Wheat is the right variety for the interior valleys. Favorable reports have come from San Joaquin and Imperial indicating that this variety will yield 20 sacks per acre under dry conditions that would impair other crops. Write for prices.

OATS

Sow 70 to 100 Pounds per Acre

Texas Red (Rust Proof)—This is one of the few varieties profitable to plant here. We have this on hand during the planting season.

Texas Red Oats—Grown in Texas.

Texas Red Oats—Grown in California. Write for prices.

RYE

Sow 60 Pounds per Acre.

Although Rye is sown largely for early winter pastures, green manuring and a limited acreage for the straw, it should be grown more largely for the grain, which is now in great demand. Write for prices.

BROOM CORN

Dwarf Evergreen This is the standard because it is easily harvested and in quality there is none better. It is the best to plant throughout the Southwest. Plant 5-8 lbs. per acre. (Per lb. 25c) (10 lbs. \$2.50) postpaid. Write for quantity price.

BARLEY

Sow 60 to 80 Pounds per Acre.

We aim always to have the best it is possible to procure. We cannot fix a price because of the fluctuations of the market. **Bearded Barley** and **Beardless Barley**. Write for prices.

Barley as a Winter Pasture

Several other plants furnish good winter pasture, but none are so valuable as Barley. It affords grazing earlier, and more abundantly. It recovers more rapidly after being grazed down. It is more relished by stock and more wholesome. It stands up so that stock can eat it with less dirt or other objectionable matter, and it is never affected by rust.

Sown in September it affords good grazing until May, but if the stock are taken off in March, a good crop of grain can be harvested.

For this purpose sow 100 pounds per acre and irrigate if needed.

Barley sown in an alfalfa field during October will make good pasture during the winter when alfalfa is dormant, or it may be grown for hay without injury to the alfalfa.

BUCKWHEAT

Common The soil is always moist where shaded with buckwheat. Sow the seed any time after April 1st, about 45 pounds per acre. Within ten weeks it will have matured. It will not survive the winter; therefore it is necessary to sow once a year.

We highly recommend the growing of Buckwheat for reclaiming desert land, as it will start a growth and produce a crop under more adverse conditions than any other crop we know of.

(Per lb. 25c) (10 lbs. \$2.00) postpaid. Quantity price on application.

Grasses

AUSTRALIAN RYE GRASS

Used extensively for lawns, particularly in the Imperial Valley, Salt River Valley, Arizona, and similar climates. It grows faster than Blue Grass, is coarser and will stand considerable abuse or neglect. For back yards, where it might be walked over frequently or where children play, it is a very good grass. (Lb. 30c) (10 lbs. \$2.50) postpaid. Ask for quantity price.

PACIFIC DOMESTIC RYE GRASS

Seed of this variety is similar to Italian Rye. It is very quick growing and hardy and produces a large amount of nutritious herbage. Its duration being but two or three years, it is not adapted for permanent pastures, yet highly valuable for rotation of crops. It is especially adapted for sowing in autumn with oats, barley, rye or clover, as a catch crop for fattening stock. Sow 30 lbs. per acre. (Per lb. 25c) (10 lbs. \$2.00) postpaid. Write for quantity price.

PACEY'S RYE GRASS

An excellent hardy grass for the coast range, on hillsides and meadows. Also a splendid durable lawn grass. It resists drouth wonderfully and is quick to recover after a slight rain-fall. Sow 30 lbs. per acre. Imported seed. (Per lb. 35c) (10 lbs. \$3.00). Write for quantity price.

CHEWINGS FESCUE

One of the best grasses to sow in a meadow. Mixed with Red Top and White Clover it is a valuable pasture grass. It is also suitable for lawns and putting greens. Sow 20 lbs. per acre. (Per lb. 65c) (10 lbs. \$6.00). Write for quantity price.

RED TOP (*Agrostis vulgaris*)

Red Top is a perennial grass which grows from a few inches to five feet in height under varying conditions of soil and climate. But the average height is probably 13 to 20 inches. It is now more highly esteemed as a pasture grass than for a hay. No other useful grass would seem so well adapted for growing in wet situations, even in places so moist as to be saturated with water for a considerable portion of the late autumn and the early spring.

The soil should be carefully prepared. Thoroughly pulverized and clean of weeds. Sow broadcast 14 lbs. of seed per acre. Also planted with other grasses for lawns.

(Per lb. 45c) (10 lbs. \$4.00) postpaid. Write for quantity price.

RUSSIAN BROME (*Bromus inermis*)

Bromus inermis is one of our hardest perennial grasses; no amount of cold will kill it. It withstands the severest drought, and water may stand on it for weeks. It will grow on any rich soil.

It requires twenty pounds of seed per acre.

Russian Brome Grass is essentially a winter pasture grass, but it also makes good hay. All kinds of stock are fond of it, and no other grass, unless it be orchard grass, will furnish grazing for so large a portion of the year. Its producing and feeding value for hay is about equal to that of timothy.

(Per lb. 50c) (10 lbs. \$4.50) postpaid. Write for quantity price.

ORCHARD COCKSFOOT (*Dactylis glomerata*)

This grass does well sown either with or without other grasses. It is frequently sown in such pasture mixtures as white clover, red clover and rye grass. If sown alone, 25 or 30 pounds of the Cocksfoot seed will insure a good stand of GRASS.

(Per lb. 35c) (10 lbs. \$3.00) postpaid. Write for quantity price.

Lawn Grasses—See Page 31

HARDING GRASS

This grass is a true perennial, one seeding being good for years. It cannot become a pest because all spread is from the crown. It never bloats. Will stand heavy tramping of sheep or cattle.

Old pastures or burned over land should be sown after the heavy winter rains have set in. (Per lb. \$2.00) postpaid.

RHODES

(*Chloris Cayana*)

Mr. Dairyman, there is no longer any excuse to permit any alkali lands to be wasted with tar weed. Your alkali lands are now a valuable asset. Rhodes grass will increase the value of these acres several fold.

Rhodes grass does not grow underground sprouts like Johnson or Bermuda grass, but sends runners over the surface like the strawberry plant. It is easily eradicated.

Rhodes Grass will smother Bermuda and other weeds because of its dense growth. It is easily eradicated by being plowed once and let stand for sixty or ninety days. It adds humus to the soil.

The best time to plant Rhodes Grass is from March 1st to August 1st. Broadcast twelve pounds of seed per acre.

(Per lb. 75c) (10 lbs. \$6.50) postpaid. Write for quantity price.

DALLAS

(*Paspalum dilatatum*)

Grows on any kind of soil—endures some alkali—excellent for permanent pasture on marsh or mesa—grows winter and summer with moisture—excellent for hay—may be cut every six weeks—becomes dormant with drouth but revives with less moisture than any other grass, yet will survive if submerged for several weeks—stools and seeds freely.

The seed takes root among the weeds and devil grass, choking out everything in its way. The dense matting roots make a thick sod capable of supporting the cattle on marshy land. The stock relish it fully as well as alfalfa. It is as easy to eradicate as Timothy or as any other bunch grass. Ten pounds is sufficient to sow one acre broadcast. It thrives in high altitude.

(Per lb. 75c) (10 lbs. \$7.00) postpaid. Write for quantity price.

BERMUDA

(*Cynodon dactylon*)

Bermuda Grass is unquestionably the best pasture grass in the south, viewed from the standpoint of palatability, productiveness and endurance. There are reasons for believing that in its proper sphere it will produce more grazing and more meat than blue grass under the most favored conditions. Sheep can graze upon it from 7 to 9 months in the year according to locality. Sow seed during May and June, five pounds per acre. (Per lb. 50c) (10 lbs. \$4.50) postpaid. Write for quantity price.

ALFILARIA

(*Erodium cicutarium*)

Alfilaria or "filaree" grows wild without any attention in all classes and conditions of soil except swamps and excessive alkali. Soon after the first heavy fall rains have saturated the ground the "filaree" begins to make its appearance. It is good pasturage at all stages of its growth, even when mature and dried up. In nutritive qualities it compares favorably with alfalfa and live stock of all kinds fatten on it readily. It is hardy even where the winter temperature reaches zero or below.

Sow 10 pounds of seed per acre. Sow just before the rainy season. (Per lb. \$1.50) postpaid.

Miscellaneous Field Crops

SUNFLOWER

Sunflower stalks are rich in potash; plow them under, do not waste them.

Mammoth Russian Should be planted largely for seed or silage. It makes a good wind-break around your garden. It is a valuable plant that grows anywhere with little attention.

(Per lb. 25c) (10 lbs. \$2.00) postpaid. Write for quantity price.

DWARF ESSEX RAPE

Pasture for Hogs, Sheep and Poultry

There is a need and a place for an extra quick growing green forage crop for use any time during fall, winter and spring, and our Dwarf Essex Rape fills that need exactly.

Rape can never become a pest as it belongs to the same general family as the turnip and rutabaga, and when planted under favorable conditions of soil and season, it makes an immense crop of green forage, juicy and succulent, and often at a time of year when little green feed is available. Plant 10 lbs. per acre. (Lb. 25c) (10 lbs. \$2.00) postpaid. Write for quantity price.

MILLET

(Sow 10-15 lbs. per acre)

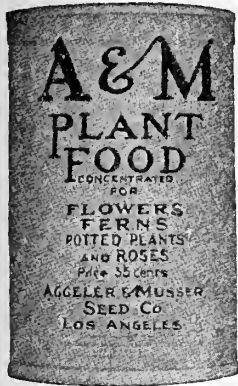
Golden or German Grows three to four feet tall, branches freely and is enormously prolific of seed. The heads are covered with small bristles. Where birds can be controlled this is probably the best variety to grow for seed. Where moisture is scarce this is a very good variety to grow for pasture. (Per lb. 25c) (10 lbs. \$1.75) postpaid.

Russian, or Hog If moisture is lacking and you need pasture in the shortest space of time, plant Russian or Hog Millet; it may be pastured within six weeks and matures seed within sixty days. It grows three to four feet tall. This seed may be harvested by heading and a second crop will mature within another thirty days. (Per lb. 25c) (10 lbs. \$1.75) postpaid.

Alfalfa, clovers, peas, beans, soybeans and vetches (all pod bearing plants) grow better and also enrich the soil, when they are inoculated. Such legumes have nodules on their roots. These nodules extract nitrogen from the air. Plants without nodules cannot do this. McQueen's Inoculator produces nodules on legume roots.

FERTILIZERS

WRITE FOR QUANTITY PRICE



A & M PLANT FOOD for POTTED PLANTS

This concentrated plant food should be used by all who grow plants of any kind in pots, such as Ferns, hanging baskets, also for roses and in window boxes.

You have, no doubt, often noticed pale and sickly looking foliage on your plants. A & M Plant Food will restore the color and promote the growth.

It is packed in a convenient, sealed 2-pound package. Will not deteriorate after being opened and, very important, it can be kept in the house without discomfort. If covered, there will be no disagreeable odor. Per package, 30 cents, f. o. b. Los Angeles.

A & M VELVET PLANT FOOD

Quick and Lasting Results

A & M Velvet Plant Food is a scientifically prepared chemical compound carrying the necessary elements for the promotion of plant growth.

It not only enhances the beauty of the blossom and the color of the lawn, but it is a wonderful stimulant to vegetable life, and, in addition to its many uses in the garden, it can be applied with wonderful results in the field for vegetables and other crops.

This plant food is easy to apply and it is in powder form and quickly available.

25 pound bag	\$1.10
50 pound bag	2.00
100 pound bag	3.75

F. O. B. Los Angeles.



Lōma

TRADE-MARK REG. U.S. PAT. OFF.

Loma is a nationally known plant food and is acclaimed by many famous growers. It is a scientifically balanced food and is useful alike for pot plants, garden crops and lawns. Loma is quick acting and the beneficial effect on vegetation is immediate and lasting. For the lawn apply at the rate of 5 lbs. per 100 square feet and wet down thoroughly. Loma is without odor, natural in color and entirely free from weed seeds.

1 lb. can	\$.25	5 lb. can	\$.60
10 lb. bag	1.00	25 lb. bag	2.00
50 lb. bag	3.75	100 lb. bag	6.00

F. O. B. Los Angeles



FULTON'S Plantabbs ODORLESS PLANT FOOD TABLETS

Plantabbs are ideal as a food and stimulant for potted and outdoor plants. They begin to feed plants at once and improvement is usually noticed in ten days or less. One Plantabb placed in the vase will prolong the life of cut flowers 30-Tablet pkt. 25c, 75-tablet pkt. 50c, 200-tablet pkt. \$1.00, 1,000-tablet pkt. \$3.50. Postage extra.



SHEEP MANURE

With barnyard fertilizer becoming more and more scarce we offer, as perhaps the best substitute, our special brand sheep manure. It may be used for mulching lawns or as a fertilizer and the results are usually very satisfactory. For mulching the lawn it requires about one sack to 500 square feet. In comparison with barnyard fertilizer this may be slightly higher in price, but a saving will be made in the time spent pulling weeds for sheep manure carries very few weed seeds, if any. Per 100 lb. sack \$2.00, \$30.00 per ton, f.o.b. Los Angeles.

PEAT HUMUS—RADIO BRAND

Peat Humus is the ideal substance for maintaining soil in first class condition, thus giving plant life every assistance for vigorous growth. It contains no weed seeds, conserves moisture, and keeps the soil porous and aerated. Peat Humus should be mixed well with soil before planting seed and it will prevent baking when used as a top dressing. Our supply is fresh from the peat beds and is not dried out. Per 80 lb. sack \$1.25; 5 sack lots \$1.20 per sack, f. o. b. Los Angeles.

PEAT MOSS

Peat Moss is a valuable soil improver for all horticultural and agricultural purposes. It consists chiefly of decomposed vegetable or organic matter and increases the humus content of the soil. It absorbs ten times its weight in water, releasing it for the plants in periods of drought. Use Peat Moss liberally on flower and vegetable gardens and on lawns. Mulch roses, fruit trees, etc. to conserve moisture. Dahlias and other tubers may be safely stored in Peat Moss. A bale of Peat Moss when loosened will cover 700 square feet. Per bale (about 150 lbs.) \$3.50. F.O.B. Los Angeles.

LEAF MOLD

We exercise the greatest care in the selection of our Leaf Mold. For home gardeners who are growing their own plants Leaf Mold will be a great assistance for mixing in with the soil and for using as a covering for the seed. A mixture of about one-fourth or one-third Leaf Mold with good loamy soil makes a very nice combination for the growing of young plants in flats. Where seeds are sown in the open a light covering of Leaf Mold on the row or the seed bed will assist in holding the moisture and secure a better germination. Per sack \$1.25; 5 sack lots \$1.10 per sack, f. o. b. Los Angeles.

ADCO

ADCO is a powder which when mixed with any non-woody vegetable waste such as grass cuttings, straw, corn stalks, dry leaves and other garden refuse gradually converts the mass into real manure fully equal to the farmyard product in fertilizing, but free from unpleasant odor, flies, weed seeds, etc. Any one can make Adco Manure. The process is perfectly simple. Use 1 lb. of Adco to every four cubic feet of debris. Write for circular giving full particulars. 25 lb. bag \$2.85, 100 lb. bag \$10.00, 150 lb. bag \$14.00. F. O. B. Los Angeles.

AMMONIUM SULPHATE

Ammonium Sulphate is a natural by-product of Coke Ovens. It has been known as a high grade carrier of Nitrogen for years. Some idea as to the value of Ammonium Sulphate as a nitrogen carrier may be obtained by the fact that to equal 100% of Ammonium Sulphate in nitrogen content, it would take: 120 pounds Nitrate of Soda or 290 pounds Cotton Seed Meal or 1,650 pounds of ordinary fertilizer or 4,000 pounds of good stable manure.

For Garden use rake the soil 1 pound to every 150 square feet. One pound is sufficient for any 1 year old tree or 1½ pound for a 2 year old tree. For field crops apply 100 pounds per acre. (25 lbs. \$1.00) (50 lbs. \$1.75) (100 lbs. \$3.00) F. O. B. Los Angeles.

Fertilizers Continued on Next Page

FERTILIZERS—Continued

TORO BRAND SULPHUR

ESPECIALLY PREPARED FOR AGRICULTURAL PURPOSES



The application of sulphur to the soil to increase crop production is now a proven and accepted fact. In addition to its fertilizing qualities it is giving excellent results in the control of potato scab. It loosens hard cement like soil, is active in controlling fungus, produces a better quality of fruit and is generally beneficial to all crops.

Toro Brand Sulphur may be applied in irrigated districts at any time and in non-irrigated districts just before plowing, so that it will get the benefit of winter rains. It may be drilled in with a fertilizer drill or broadcast by hand and then plowed or cultivated in.

In orchards use four pounds to the tree, where trees are four years of age, and for older trees a little more may be used.

For vines, grains, alfalfa, beans and all other surface crops use about two sacks per acre. Within six months trees or crops usually begin to show results which con-

tinue into the second, third and fourth years. Toro Sulphur is packed 100 lbs. to sack. 1 sack \$3.70, 5-sack lots, \$3.60 per sack. F. O. B. Los Angeles.

Sulphur for Dusting—See Page 84

GYPSUM

Gypsum brings about a mechanical change in the soil by making it more pervious to water and air. Very heavy adobe soils are much improved with an application of Gypsum which loosens it and this condition tends to prevent packing.

Gypsum is also used in the treatment of soil containing black alkali. The quantities to be used in the control of black alkali depending upon the amount of its presence in the soil. For the home garden one lb. to 5 sq. ft. on extremely heavy soil will provide a favorable condition for beneficial action of soil bacteria, will assist in the retention of moisture and make for a better circulation of air and water. Gypsum, however, will not correct acidity—that is it will not make sour soil sweet. Lime must be used for that purpose. Gypsum 100 lb. sack \$1.25, 5 sacks \$1.10 per sack, ton lots 95c per 100 lbs, f. o. b. Los Angeles.

Fertilizers in Small Gardens

Amateur garden makers are often puzzled as to the amount of fertilizer needed for their small plots, because the usual directions give only the amount per acre. The following table shows (approximately) the proper proportions:

100 lbs. per acre	equals 1 lb. for a plot 10x43 feet.
200 lbs. per acre	equals 1 lb. for a plot 10x21 feet.
300 lbs. per acre	equals 1 lb. for a plot 10x14 feet.
400 lbs. per acre	equals 1 lb. for a plot 10x11 feet.
500 lbs. per acre	equals 1 lb. for a plot 10x 9 feet.

A & M HYDRATED LIME

The constant watering of lawns tends to sour the soil and eventually the lawn becomes foul with sorrel, Creeping Charlie, and other weeds which thrive in an acid soil.

This condition may be improved by applying A & M Hydrated Lime. 100 to 200 pounds applied to the average lawn on a 50 ft. lot will correct acidity and greatly improve the condition of the lawn. On very heavy soils it should be applied sparingly at first and should be applied more frequently. Heavy soils sometimes are slow to absorb the first application, but improvement may be noted when a second application is made.

The more foul the lawn is with those plants thriving on acid soil, the more lime should be applied, as it will tend to kill off the weeds and with the acid condition corrected in the soil the Blue Grass and Clover will begin to grow more luxuriously. A & M Hydrated Lime goes about twice as far as the ordinary air slacked lime. Price 80 lb. sack \$1.50; 4 lb. carton 25c. F. O. B. Los Angeles.

Nitrate of Soda Contains about 15% nitrogen. Is very quick in action and entirely soluble. Is best applied after the plants are growing. Price fluctuates. Write for prices.

Super-Phosphate (25 lbs. 65c) (50 lbs. \$1.20) (100 lbs. \$2.25) F. O. B. Los Angeles. Write for quantity price.

Fish Fertilizer This fertilizer is composed of dried fish, finely ground, and is purely organic. An excellent fertilizer for all crops. Will last for several crops without the need of other fertilizer. Write for prices.

Dried Blood Meal Is very rich in nitrogen and an excellent plant-food for increasing the yield of vegetables and fruit, and also for stimulating the growth of flowers. There is from 12 to 13% nitrogen. Write for price.

Bone Meal 3½% nitrogen and 16% phosphoric acid. In their action. If put in the soil in the Fall, some results will show the following Spring. Slow but sure. Write for price.



VIGORO FERTILIZER SPREADER

Every home owner needs this very handy tool for more successful gardening. It is an easy running, sturdy machine and applies plant food uniformly in a 14-inch spread at the rate of about 4 lbs. per 100 sq. feet. It is designed for use on established lawns and can be used on newly prepared soils if well firmed. It saves time and labor and is ideal for use on windy days. Weight 6 lbs. Price \$2.35, postage extra.

McQueen's Inoculator

McQueen's Inoculator is a nitrogen-fixing bacteria for inoculating legumes. When the bacteria are absent the plant cannot feed on the air nitrogen but feeds on the soil nitrogen, thus making the land poorer. McQueen's Inoculator hastens maturity, increases the crop, improves its quality, enriches the soil and saves fertilizer bills. It comes in dust form and no water is needed. Only a few minutes are required to treat the seed. Do it right in the seeder or drill box. Full directions with each package. When ordering specify what seeds are to be inoculated.

FOR SMALL SEEDS

Group No. 1—Alfalfa, Sweet Clover, Hubam, Burr Clover.
Group No. 2—Alsike, Red Clover, Mammoth Clover, White Clover.

2½ bushel size inoculates	150 lbs. seed	.....\$2.00
1 bushel size inoculates	60 lbs. seed	..... 1.00
½ bushel size inoculates	30 lbs. seed	..... .50

FOR LARGE SEEDS

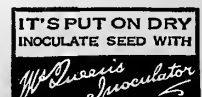
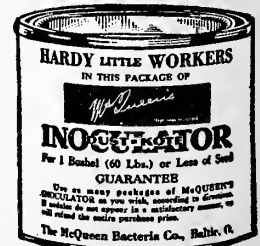
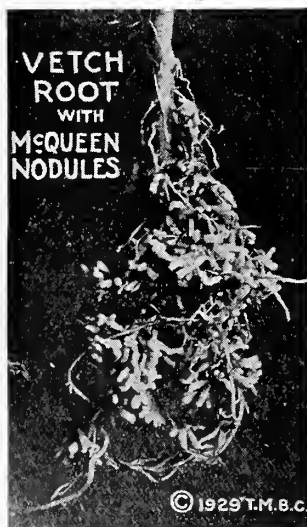
Group No. 3—Garden and Field Peas, Vetch, Sweet Peas.
Group No. 4—Navy Beans, Bush and Pole Beans.
Group No. 5—Cow Peas, Peanuts, Lima Beans.
Group No. 6—Soy Beans.

5 bushel size inoculates	300 lbs. seed	.....\$1.75
2 bushel size inoculates	120 lbs. seed	..... 1.00
1 bushel size inoculates	60 lbs. seed	..... .50

GARDEN SIZE (composite culture for Garden Beans, Garden Peas, Lima Beans and Sweet Peas)15c

NOD-O-GEN

To those who prefer a jelly form of inoculating bacteria we offer Nod-O-Gen. Garden size for Garden Peas, Beans, Sweet Peas, etc.—sufficient for 12-15 lbs. of seed—Per bottle 25c.



ACME INSECTICIDES FUNGICIDES

Acme All Round Spray



This combination spray fills a long felt want in the vital combat against garden pests. The preparation includes Arsenate of Lead for chewing or leaf-eating insects, Bordeaux Mixture for blight and fungus diseases, and thirdly, Nicotine Sulphate 40% for aphids and other sucking insects. The Arsenate of Lead and Bordeaux Mixture are mixed in powder form and the Nicotine Sulphate is contained in a small bottle. The whole preparation is packed in a handsome lithographed tin and a complete set of instructions with spray chart is enclosed.
(1/4 lb. tin 45c) (1 lb. tin 95c) f. o. b. Los Angeles. Cannot be mailed.

Acme Garden Guard



Garden Guard is a convenient, practical and economical all around garden insecticide, ready for use as it comes in the package; in a sifter can, easily applied, and very effective in combating the majority of insect pests that prey upon your garden. Applied early in the morning or late in the evening when the dew is on, it will control many chewing insects. The Bordeaux Mixture contained therein serves as a fungicide and will assist in preventing Mildew and other fungus difficulties. Used extensively by market gardeners.
(1 lb. package 35c) (5 lb. package \$1.15) (100 lb. drum \$15.75) f.o.b. Los Angeles. Cannot be mailed.

Acme Dry Lime Sulphur



An invaluable spray for the control of fungus diseases such as peach leaf curl, mildew, peach twig borer, pear scab and many other ailments common to deciduous fruit trees. For the above spray with a mixture of 10 to 12 tablespoonfuls of Dry Lime Sulphur to one gallon of water sometime during the month of December and again in the spring when the buds begin to swell.
Peach Leaf Curl is one of the very common fungus diseases and sap oozing from the branches is an indication of this fungus. (1 lb. cans 35c) (5 lb. cans \$1.50). Write for quantity prices. May be mailed.

Acme Bordeaux Mixture



Bordeaux Mixture not only stimulates plant growth but controls fungus, such as Celery Blight, Apple Black Rot, Pear Scab, Mildew, Blight, and many other fungus ailments. It is probably one of the best preventatives (if there is one) of Tomato Blight and young tomato plants should be sprayed with Bordeaux Mixture from the time they show through the ground until they are ready for transplanting. (1 lb. carton 35c) (4 lb. paper bag 95c) (8 lb. bag \$1.75) f. o. b. Los Angeles. Write for quantity prices. Cannot be mailed.

Acme Paris Green



For grasshopper and cutworm bait use Acme Paris Green as follows: one pound Paris Green, 10 lbs. bran, 1 quart brown molasses, 2 lemons chopped fine. Add water to make a crumbly mass and broadcast in the field for grasshoppers. For cutworms place the bait about the garden in the evening. (1 lb. carton 55c) (5 lb. carton \$2.50). Cannot be mailed.

Acme London Purple



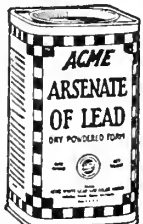
The economy of using Acme London Purple lies in its superior sticking quality in addition to being reasonable in price and quick in action. We recommend it for use on potatoes, cotton, and any other crop infested with chewing insects. Use it as a dust or as a spray. (1 lb. carton 35c) (4 lb. paper bag 90c) f. o. b. Los Angeles. Write for quantity prices. Cannot be mailed.

Acme M. S. R. Dusting Sulphur



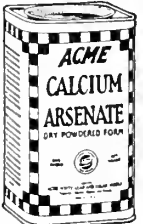
A high grade powdered sulphur put up in convenient sifter-top cans ready for use. It contains a small portion of dry lime-sulphur (to improve control in combating black spot) and a colloidal clay has been added to keep the sulphur from lumping and balling. Recommended for the control of mildew, leaf-spot, rust and red spider. 3 lb. can 40c, f.o.b. Los Angeles. Can be mailed.

Acme Arsenate of Lead



For the control of codling moth, cabbage worms, caterpillars, beetles and all other leaf-eating or chewing insects. In mixing spray material use 3 to 4 heaping tablespoonsful of Arsenate of Lead to one gallon of water. For dusting mix one part Arsenate of Lead to 5 or 6 parts of Hydrated Lime. This will be found effective for the Diabrotica Soror, which is the twelve spotted beetle that infests dahlias, etc., also dusted on the silk will prevent corn ear worm and it may be used as a dust for other leaf-eating insects. (1 lb. carton 40c) (4 lb. paper bag 95c) f.o.b. Write for quantity prices. Cannot be mailed.

Acme Calcium Arsenate



Is especially valuable for use in dusting cabbage, potatoes and other crops for the control of many insects. It is extremely light and fluffy, having not less than 100 cubic inches to the pound, insuring even distribution when dusted and effective results when used as a liquid spray. (1 lb. carton 35c) (4 lb. paper bag 85c) f.o.b. Write for quantity prices. Cannot be mailed.

Acme Spray Soap



A fish oil soap effective in destroying many sucking insects and lice on plants, trees, ferns, etc. It is also used in combination with Black Leaf 40 and Evergreen as a spreading and adhesive agent. (1 lb. 35c) (5 lbs. \$1.50) f. o. b. Los Angeles. Can be mailed.

Acme Bait-M



Bait-M is a mixed preparation for the eradication of snails, cutworms, slugs, grasshoppers and sow bugs and is highly recommended. It should be broadcast over the ground in the evenings. (1 lb. carton 30c) (3 lb. carton 60c) (15 lb. bag \$2.75) f. o. b. Los Angeles. Cannot be mailed.



ACME SPRAYING GUIDE

Contains of Acme White Lead and Color Works WHEN AND WHAT TO SPRAY

Write for this Fine Guide Free

NAME	ADDRESS	CITY	STATE	ZIP



INSECTICIDES and SPRAY MATERIALS—Continued

DESTRUXOL



This is one of the finest sprays we know for use against such common garden pests as aphids, thrip, lice, red spider, leaf roller hoppers, mealy bugs and mildew. It contains Nicotine Sulphate, Cyanide, etc., the Cyanide giving off fumes which reach insect life on the underside of foliage. Destruxol may be used at all seasons with entire safety, although the warmer the weather, the greater is the fuming action. There is little chance of burning or checking growth and on roses or other hardy subjects, the solution may be used at double strength. Use 1 large teaspoonful of Destruxol to 1 gallon of water.

Cannot be mailed.

1 oz. makes	5 gals. spray	.....	\$ .40
2 oz. "	10 "	.....	.65
4 oz. "	25 "	.....	.90
1/2 pt. "	50 "	.....	1.40
1 pt. "	100 "	.....	2.00
1 qt. "	200 "	.....	3.75

Destruxol Emulsion

Destruxol Emulsion contains the constituents of Destruxol, combined with organic and vegetable oils in the form of a stable emulsion. It retains its insecticidal qualifications over an indefinite period without detrimental effects to tree life. Very effective in the control of scale on citrus trees, also red spider, mealy bug and aphids.

Cannot be mailed.

1/2 pt. makes	6 gals. spray	.....	\$ .35
1 qt. "	25 "	.....	.95
1/2 gal. "	50 "	.....	1.40
1 gal. "	100 "	.....	1.80
5 gal. "	500 "	.....	6.75

Write for descriptive circular.

Fungusol

A liquid spray especially effective against mildew and other fungus diseases. For best results mix one part of Fungusol with four parts of Destruxol Emulsion. 1 pint \$3.25, 1 quart \$5.75 f.o.b. Los Angeles. Cannot be mailed.

Tree Tanglefoot

A sticky substance that may be applied to the bark of trees to protect them from all climbing insects. One application is good for three or four months and it will prevent ants from entering tree tops. Also used for tree surgery. (1 lb. Can 60c) (5 lbs. \$2.75) (10 lbs. \$5.25) f.o.b. Los Angeles. May be mailed.

Black Leaf 40



A 40 per cent Nicotine solution for the control of plant lice or aphids on roses and other garden plants. Must be applied in vapor form with a spray pump. Black Leaf 40 will kill all aphids or plant lice that are covered with the spray material but a new supply of aphids may be carried to your plants the following day by the Argentine

Ant. To control aphids it is necessary also to control Argentine Ant. A one-ounce bottle of Black Leaf 40 will make 6 gallons of spray. Full directions on the package. (1 oz. 35c) 5 oz. \$1.00 (1 lb. bottle \$2.50) (2 lb. can \$3.75) (5 lb. can \$7.00) (10 lb. can \$11.85). Sent by express or freight only.

Blue Stone

(Sulphate of Copper)

Used to prevent smut on barley and wheat. The seed to be planted should be soaked in a solution of 1 lb. Blue Stone to 6 gallons of water. Soak the seeds for ten or fifteen minutes then spread it to dry. Blue Stone is also used in the water for the control of some fungus diseases. (Per lb 15c) (10 lbs. \$1.40) F.O.B. Los Angeles. Small quantities may be sent by mail. Ask for prices on barrel lots and larger quantities.

Anchor Dusting Sulphur



Mildew is more easily prevented than cured and there is no better preventative than Anchor Brand Sulphur, this being the highest grade sulphur manufactured.

The fine snowflake like particles of the Anchor Brand are condensed from a vapor and are not ground. This is what gives Anchor Brand Sulphur the

feathery and spiderweb clinging and strong fuming qualities that are so well known. This sulphur is also very fine for the control of Red Spider. Sunlight, moisture and high temperature are contributing factors in the creating of fumes. Price, 1 lb. 10c, 3 lbs. 25c, 100 lb. sack \$4.95, postage or freight extra.

Diamond "S" Sulphur

This sulphur is used mostly for preparing a lime sulphur solution, for which purpose it is very satisfactory. There is also a considerable quantity of it sold for the purpose of mixing with chicken feed. For dusting plants against mildew we recommend Anchor Brand and not Diamond S.

Price \$3.50 per 100 lb. sack f.o.b. Los Angeles.



Volck

An ortho spray for the control of scale, mealy bugs, red spiders and rust mites. (1/2 pt. 40c) (1 pt. 55c) (1 qt. 80c) (1 gal. \$2.15 (5 gals \$9.10) f.o.b. Los Angeles. Can be mailed.



A Non-Poisonous Spray—Can Be Mailed

EVERGREEN is recommended for use against both sucking and chewing insects such as plant lice, cabbage worms, cut worms, thrip, cucumber beetle, rose chafer, red spider, mealy bugs, etc. It is harmless to humans, animals and birds and kills only insects.

1 1/2 oz. makes	9 gals. spray	.....	\$ .35
6 oz. "	38 "	.....	1.00
16 oz. "	100 "	.....	2.00

Prices f.o.b. Los Angeles.



KALOIL

A wonderful non-poisonous self spreading and complete spray for sucking insects as aphids, thrip and mites. 1 1/2 oz. (makes 11 gals. spray) 35c, 6 oz. (makes 46 gals. spray) \$1.00.

KALO SPRAY Replaces lead arsenate. An effective spray for all chewing or leaf eating insects. Safe to use. Mix 2 lbs. to 50 gals. water. 1/2 lb. can 35c, 4 lb. bag \$1.45.

KALITE A quick killing protection dust. Safe to use as it leaves no harmful residue. Quick and sure. 1 lb. 35c, 5 lbs. \$1.50.

The above 3 items may be mailed—postage extra.

Nico Dust



NICO DUST is a dry powder insecticide killing by fumes as well as by contact. The principal ingredient is Nicotine Sulphate—the well known remedy for sucking insects. Nico dust should be applied as a dust directly to the plant with a hand or power duster, and the best results are obtained when the air is still and the temperature fairly warm. In addition to Nico Dust in several strengths we have the Nico Garden Dust for general use in the garden, controlling slugs, aphids and many other pests.

Nico Garden Dust

(12 oz. pkg. 40c) (5 lb. pkg. \$2.00). Cannot be mailed.

Nico Dust No. 6

6% Black Leaf 40 (1 lb. pkg. 45c) (5 lb. pkg. \$1.50) (25 lb. steel drum \$4.75) (50 lb. steel drum \$8.50) (100 lb. steel drum \$15.50). Cannot be mailed.

Nico Dust No. 8

8% Black Leaf 40 (1 lb. pkg. 50c) (5 lb. pkg. \$1.75) (25 lb. steel drum \$5.50) (50 lb. steel drum \$10.35) (100 lb. steel drum \$19.00). Cannot be mailed.

Nico Dust No. 10

10% Black Leaf 40 (1 lb. pkg. 55c) (5 lb. pkg. \$1.90) (25 lb. steel drum \$6.25) (50 lb. steel drum \$12.00) (100 lb. steel drum \$22.50). Cannot be mailed.

ALL prices are f.o.b. Los Angeles. Send for Nico Dust Insecticide Chart.

A & M Green Bar Soap

The efficiency of any spray insecticide is greatly increased by the use of a spreader. Unless a spreader is used the spray will collect on the plants in tiny globules and many parts will be left dry. A & M Green Bar Soap is specially prepared and increases the efficiency of Evergreen, Black Leaf 40, etc. (See directions on wrapper). Price 15c per bar.

INSECTICIDES and SPRAY MATERIALS—Continued



SNAROL Kills Garden Pests

Stops Their Damage

Science Provides
New Safe Method
That Does the Work
Without Fuss



**Snails, Cutworms, Slugs, Grasshoppers, Sowbugs,
Earwigs, Etc., Are Exterminated**

Snarol is a ready prepared meal that you simply broadcast on the ground, under the vegetation. The pests eat the meal and are quickly destroyed.

Snarol will not deteriorate from rain or sprinkling and also is non-injurious to vegetation when used according to simple directions. These features distinguish it from ordinary controls and make Snarol popular with professional gardeners and nursery men. Prices—1-lb. package 35c, 3-lb. package 75c, 15-lb. package \$2.95, 50-lb. bags \$7.50. Cannot be mailed.



ANTROL

The National Ant Control

New Method "Gets" Them at Their
Source—Safe, Permanent, Effective

The Antrol system is adapted to any size house or garden and quickly destroys all species of sweet eating ants. It is composed of small glass containers and a special formula of syrup. The containers are partially filled with syrup and placed about the outside edges of the house or along "ant" trails in the garden if the infestation occurs there. The ants smell the syrup, eat it and then transmit its mild poison to the queen in the nest. Soon the entire ant colony is destroyed.

The complete system should cover every 15 feet around the outside of the house or "ant" trails in the garden. Once installed permanent, effective and safe protection is insured from these annoying pests. Prices—Antrol sets containing 4 containers and 1 4-oz. bottle of syrup, 95c; Antrol extra containers (each), 15c; Antrol syrup, 4-oz. bottle, 35c; pints, 75c; quarts, \$1.25; gallons, \$3.00; 5 gallons, \$13.75. Cannot be mailed.



Antrol Ant and Roach Powder



Here is a new scientifically prepared ant and roach powder that kills pests quicker. It is ideal for use wherever quick protection is needed. Easy to use—shaker top. (2½ oz. can 15c). Postage 5c extra.



Schrader's Ant Powder

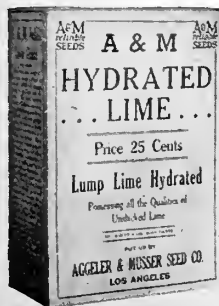
A safe, easy and effective way of destroying ants by sprinkling powder on their trails and around the nests. State whether powder is needed for the Argentine Ant or Red Ant.

Packed in sifter cans—(2 oz. 25c) (5 oz. 50c) (12 oz. \$1.00). Postage extra.

Squirrel Poison—Moore's

(Grain). A certain and specific destruction of gophers, squirrels, crows and mice. (Small size 50c) (Medium size \$1.00) (Gallon-size \$1.90) (5 Gallon drums \$5.50). Cannot be mailed.

A & M Hydrated Lime



An occasional application of Hydrated Lime on the lawn will correct acidity in the soil by simply being applied on the surface and sprinkled. It loosens up heavy soils and prevents packing, baking and cracking, thereby making cultivation easier. It promotes

the normal decay of organic matter in the soil. It requires about one-half as much Hydrated Lime as any other form of lime to produce the same results. \$1.50 per 80-lb. sack, f.o.b. Los Angeles; 4-lb. cartons 25c, by mail 35c.

Sow Bug Control

This is one of the most effective preparations for the quick control of sowbugs. Place the dry powder in situations where the pests are prevalent. Full directions on package (1½ lb. can 50c) (5 lb. can \$1.60). Cannot be mailed.

Cyanogas

For Wireworm, Red Ants, etc.



Wireworms can be controlled by drawing them to rows by a bait crop of cull beans and then applying Cyanogas one week later 1 inch below the bait.

For further information ask for bulletin on Wireworm Control. ½ lb. pkg. 50c, 1 lb. pkg. 75c, 5 lb. pkg. \$2.50 f.o.b. Los Angeles. Cannot be mailed.

CYANO GAS A-DUST—For the control of large red ants, gophers, etc. ½ lb. package 50c, 1 lb. package 75c; 5 lb. package, \$2.50. Cannot be mailed.

Carbon Bi-Sulphide

May be used for the control of the large red ant. Is used to some extent for wire worm infested soil but must be applied when there is nothing growing in the soil. (Pt. bottle 40c) (Qt. 60c) (Gal. \$2.25) (5 Gal. \$8.50) f.o.b. Los Angeles. Sent by express or freight only.

Pruning Compound

For covering fresh cuts or bruises on trees and is particularly valuable for figs, walnuts, etc. Will aid nature in healing wounds without retarding the growth of the tree. (1 Qt. Can 75c) (1 Gal. Can \$2.25) f.o.b. Los Angeles. May be sent by mail.

Tree Seal

An ideal grafting, in-arching or pruning compound and is also useful for many household purposes. (1 pt. 35c) (1 qt. 60c) (1 gal. \$1.80) (5 gal. \$7.50) f.o.b. Los Angeles. Can be mailed.

SEMESAN



A seed, plant and soil disinfectant. It will successfully prevent or control diseases of seeds without in the least impairing their vitality, but on the other hand generally increases germination, invigorates seedling growth, and develops sturdier plants. Semesan will also prevent or control the "Brown Patch" of lawns, the "Damping-off" of seedlings and cuttings, and certain soil-borne diseases. Treatments can be made in dust or liquid form. (2 oz. tin 50c) (1 lb. tin \$2.75) (5 lb. tin \$13) f.o.b. Los Angeles. Cannot be mailed.

Semesan Jr.

A less expensive but equally effective form of Semesan for dry dust disinfection of seed corn only. Controls diseases and at the same time increases yields from 10 to 40%. (4 oz. can 50c) (1 lb. tin \$1.75) (5 lb. tin \$8.00). F. O. B. Los Angeles. Cannot be mailed.

Semesan Bel

Applied to whole or cut seed potatoes, either as a dry powder or in liquid form, Semesan Bel will prevent or control the common seedborne potato diseases. Also very effective in treatment of Gladiolus and other bulbs, and produces healthier plants. (4 oz. tins 50c) (1 lb. tin \$1.75) (5 lb. tin \$8.00) f.o.b. Los Angeles. Cannot be mailed.

Nu-Green

Recommended for brown patch control. Contains the same effective ingredients as Semesan but has the added property of quickly restoring diseased grass to normal conditions. (3 oz. can 50c) (1 lb. tin \$2.00) (5 lb. tin \$9.00) (25 lb. pail \$37.50) f.o.b. Los Angeles. Cannot be mailed.

Free Descriptive Booklets Sent Upon Request

Tobacco Stems

Used extensively by nurserymen and florists for fumigating green houses. Poultrymen also use it in chicken nests. Small quantities by express 20c per lb., f.o.b. Los Angeles. Bales 80-100 lbs., \$5.50 per 100 lbs. f.o.b. Los Angeles. Prices subject to change.

SPRAY PUMPS

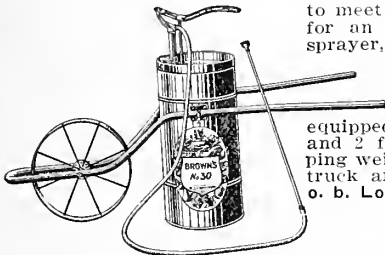
A & M TROMBONE SPRAYER



Equipped with nozzle for fine spray or straight stream. May be used for garden spraying, white-washing and disinfecting. With the smallest effort a powerful volume of spray is produced, capable of reaching the tops of average trees. It is made entirely of brass. Pump as shown above, with short hose, strainers and three spraying nozzles. Shipping weight 5 pounds.

Each \$5.00 f. o. b. Los Angeles.

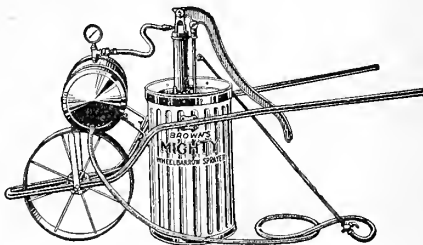
PORTABLE SPRAYERS BROWN'S AUTO SPRAY No. 30-D



This sprayer has been designed to meet the demand which exists for an inexpensive wheelbarrow sprayer, and is suitable for handling all spraying solutions. The galvanized tank is of 12 gallon capacity and it is equipped with 6 ft. of $\frac{3}{4}$ in. hose and 2 ft. iron extension. Shipping weight 50 lbs. Complete with truck and wheel. Price \$12.00 f. o. b. Los Angeles.

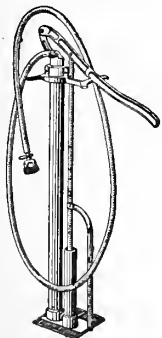
BROWN'S MIGHTY

An unexcelled sprayer for use in orchards, truck garden and all general spraying. The 15 gal. tank is constructed of extra heavy corrugated copper bearing galvanized steel sheet, and the sturdy air storage tank is guaranteed for 250 lbs. pressure and is fitted with heavy duty brass pressure gauge. The pump is equipped with heavy paddle agitator. Well packed—unassembled. Shipping weight 112 lbs. Price \$36.00 f.o.b. Los Angeles.



BROWN'S RELIANCE

Similar to Brown's Mighty but without the pressure air tank. Well packed—unassembled. Shipping weight 83 lbs. Price \$24.50 f.o.b. Los Angeles.



BARREL PUMPS Brown's Auto-Spray No. 4

For the average small farmer or truck gardener, a pump of this size is very satisfactory. Because of its special design this pump is light in weight and consequently it is comparatively inexpensive. However, it is durable and sturdy in construction. The long air chamber stores up reserve pressure so that the nozzle throws a long continuous spray. Agitator is automatic and functions as long as pump is being operated. Pump cylinder is $1\frac{1}{2}$ in. diameter. Equipped with 15 feet of $\frac{3}{4}$ in. hose and auto-spray nozzle. Shipping weight 25 lbs. Price (without barrel) \$15.50 f. o. b. Los Angeles.

UTILITY NO. 90-A

With this barrel pump a pressure of 175 lbs. can be maintained without exertion. Brass cylinder is $1\frac{3}{4}$ in. diameter. Equipped with 10 feet of $\frac{1}{2}$ in. hose and angle nozzle. Shipping weight 37 lbs. Price (without barrel) \$17.00 f. o. b. Los Angeles.

SPRAY HOSE

Heavy, high pressure hose for power pumps:
 $\frac{3}{8}$ inch 25c per foot $\frac{1}{2}$ inch 30c per foot
 Hose for use on small spray pumps:
 $\frac{3}{8}$ inch 17c per foot $\frac{1}{2}$ inch 21c per foot
 3-ft. Brass Extension Rods 90c each
 (F.O.B. Los Angeles)

BROWN'S AUTO SPRAY NO. 50

Light Weight—Specially Recommended

This sturdy machine is almost identical to Auto-Spray No. 9 in construction and manipulation, but with smaller capacity, holding about $2\frac{1}{2}$ gallons. Height 18 inches, diameter, 7 inches. It is entirely suitable for spraying on a smaller scale. It is particularly recommended for use where weight is a factor, as when the women folks or youngsters help out with the spraying. Furnished with angle nozzle.



Construction and uses same as No. 9. Equipment same as No. 9, except 18 inch extension in place of 2 feet. Solid seamless brass pump and check valve. Weight empty 6 lbs., loaded 23 lbs., shipping weight 7 lbs.

No. 50-B Brass Tank with Auto-Pop \$6.75
 No. 50-D Galv. Tank with Auto-Pop 4.75
 (F.O.B. Los Angeles)

HUDSON JUNIOR SPRAYER

Similar to above. Galv. tank of $2\frac{1}{2}$ gallon capacity; all working parts brass. Complete with hose and 1 foot brass extension rod. Shipping weight 8 lbs. Price \$4.75 f.o.b. Los Angeles.

BROWN'S AUTO-SPRAY No. 9

Sturdy compressed air sprayer, equipped with a heavy brass screw cap to lock pump in reservoir. The metal in the tank is lock-seamed, well riveted, soldered inside and out. May be obtained with brass or galvanized tank. Brass tank is strongly recommended as it will not rust and will withstand strong solutions. Capacity 4 gals., height 2 feet, diameter 7 inches. For spraying field crops, shrubs, vines, poultry houses; for removing wall paper, disinfecting, white-washing, creosoting shingles, applying floor oils and for general purposes. Two-foot extension with each machine, no extra price. New solid seamless brass pump and brass ball check valve. Furnished with angle nozzle. Weight empty 9 lbs. Packed for shipment 10 lbs.



No. 9-B Brass Tank with Auto-Pop \$9.75
 No. 9-D Galv. Tank with Auto-Pop 6.50
 (F.O.B. Los Angeles)

HUDSON PERFECTION COMPRESSED AIR SPRAYER

Similar to above. Galvanized or brass tank of 4 gallon capacity; all working parts brass. Equipped with brass extension rod. Shipping weight 12 lbs.

No. 110-G Galvanized Tank \$6.50
 No. 110-B Brass Tank 9.75
 (F.O.B. Los Angeles)

HUDSON THRIFTY SPRAYER

Extra good value in sprayers. Galvanized tank—2 gal. capacity. Fitted with extension rod. Shipping weight $7\frac{1}{2}$ lbs.

No. 120-G \$4.00, f.o.b. Los Angeles

BROWN'S AUTO-SPRAY No. 26

A continuous atomizer of unusual merits. The container can be detached for refilling and cleaning by simply unscrewing from the pump cylinder. The syphon tube is easily removed and quickly cleaned by removing the nozzle.

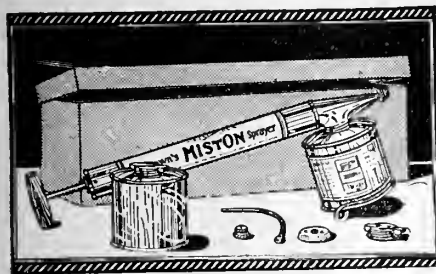
Uses—For spraying garden crops, for use in greenhouses, for handling disinfectants and fly oils. It can be used with all spraying solutions.

No. 26-AG, tin pump, 1 qt. glass tank.....\$1.25, postage 10c
 No. 26-B, tin pump, 1 qt. brass tank..... 1.35, postage 10c
 No. 26-C, all brass, 1 qt. 1.50, postage 10c



Sprayers - - Continued

THE MISTON CONTINUOUS SPRAYER



Highly perfected design of continuous sprayer. It has a variable nozzle that makes Mist-On an all purpose sprayer. A slight turn to right or left gives a nozzle adjustment that permits every density of spray from delicate vapor mist to a solid stream. Mist-On is sold singly as a complete sprayer.

or as an outfit consisting of 1 extra tank (for changing to another solution or color of lacquer) and many other extra parts.

Single Sprayer A, tin	\$1.25 each
Single Sprayer C, brass	1.75 each
Mist-On Outfit 1-A, tin	2.50 each
Mist-On Outfit 1-C, brass	3.00 each

(Prices F.O.B. Los Angeles)

A & M SUPERIOR MISTY SPRAYER



All tin. Holds 1 quart. Price
Midget size. Holds 1 pint. Price.

40c By Mail 50c
.35c By Mail 45c

BROWN'S TWIN BLAST SPRAYER

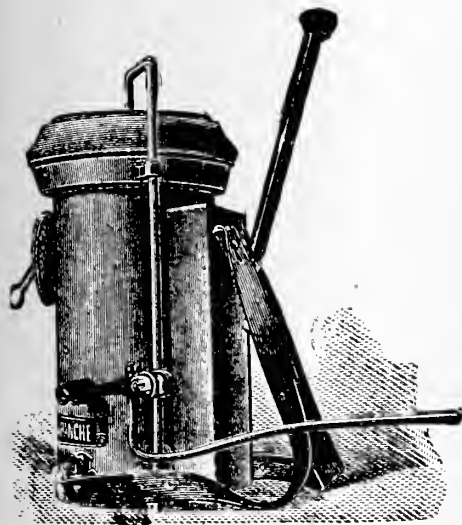


On account of its having two syphon tubes this sprayer throws an unusually large blast of misty spray. Very effective.

Tin pump with glass tank, 1 qt., 75c. Postage 10c.

Dusters For Garden and Field

THE VERMOREL "TORPILLE" SULPHURING MACHINE



Without any doubt the Vermorel Sulphur Duster does the work perfectly. It has a carrying capacity of 15 pounds; it distributes the weight on the shoulders and back, leaving the hands of the man operating the machine free to work the pump and open up the vines.

The sulphur, violently projected by a powerful bellows, sends out of the paddle-shaped nozzle, which can be directed at will, dust as fine as mist, thus producing highest efficiency with least sulphur. No. 1 \$16.00. No. 2, double action \$19.00, f. o. b. Los Angeles.

GRUN DUSTERS

These dusters are used very extensively by market gardeners. They are strong, easy of operation and grinds the coarsest materials to fine powder.

No. 1, capacity 22 lbs., net weight 15 lbs.	\$16.50
No. 2, capacity 13½ lbs., net weight 13 lbs.	16.20

f.o.b. Los Angeles

NICO DUSTER



Nico Duster No. 1 is adapted for use with sulphur and all insect powders. Because of its size and efficiency it is a favorite with the housewife in applying roach, ant and various bug powders. Also very practical for dusting rose bushes, etc., in small gardens. This little gun makes dusting a pleasure. Price 50c. By mail 60c.

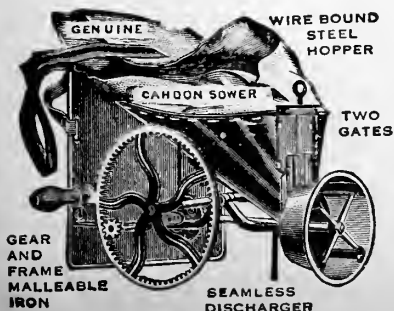
BROWN'S CRYSTAL DUSTER



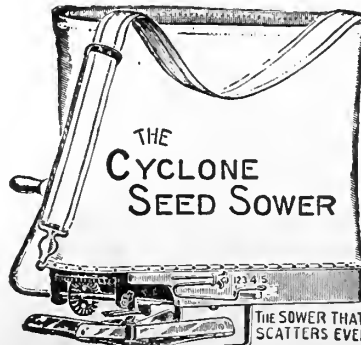
Brown's Crystal Duster is one of the newest type dusters on the market. This duster has the glass jar feature which enables the operator to see the agitation of the dust and shows the amount of dust in the container. It is equipped with a long extension and adjustable nozzle which enables the operator to dust from underneath without bending. Brown's Crystal Duster, tin cylinder, glass container, 1 qt., \$1.35; postage 10c.

Seeders

Cahoon Seeder



The Standard Sower acknowledged to be superior to all other hand sowers. Gives perfect satisfaction, and can be used for sowing alfalfa and grains broadcast. Sows from four to eight acres per hour at a common walking gait. A saving of four-fifths of the labor and one-third of the seed by its use. A person entirely unaccustomed to sowing by hand can use this machine with perfect success. Price \$6.00 f. o. b. here. Weight crated 8 lbs. Can be sent by mail.

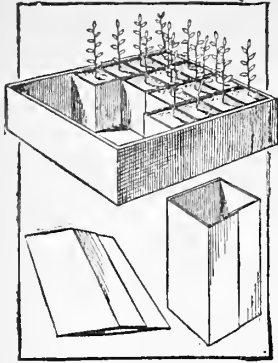


Cyclone Seed Sower

This Seeder is equipped with the following important features: Sloping feed board, automatic feed adjustment, distributing wheel, triple gears. Weight, 5 lbs. Price \$2.50, f. o. b. Los Angeles.

Planet Jr. Seeders & Cultivators

We have a full line of these in stock. Write for descriptive catalog.



The Expan Planting Pot

Made of heavy tar paper. Open top and bottom. For propagating plants, trees and shrubs — no waste space — no breakage. For the nurseryman, florist and market gardener. You can grow melons, squash, canteloupes, cucumbers, etc., three weeks earlier in these pots than out in the open. When setting the plants in the field plant the pot and all, leaving about one inch above the top of the soil; this

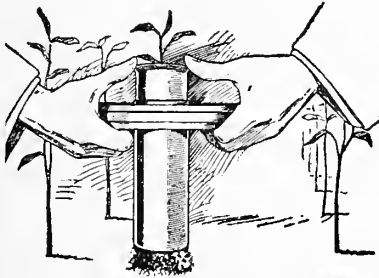
protects the tender plant from cut worms, wire worms, moles and field mice.

Size	Price per 1000	Price per 100	Wt. per 1000
3x4	6.25	1.35	44 lbs.
2x8	8.00	1.45	58 lbs.
2x6	6.25	1.35	44 lbs.
2x4	4.00	1.00	29 lbs.
2x3	3.75	.75	22 lbs.
1½x5	4.60	1.00	28 lbs.
1½x4	3.75	.75	22 lbs.

All prices f.o.b. Los Angeles

Transplanter

A Transplanter that does the work without disturbing the roots. It first makes the hole where you wish the plant, then picks up the plant root and all, without disturbing it, and sets the plant into its new location without checking its growth. A child can operate it. Just the thing for Eucalyptus growers and nurserymen. (50c) (by mail 60c).



Taken out of here - to be set in here
Transplanter

Yucca Tree Protectors

Protect the young trees from rabbits, squirrels, etc.

	Wt.	Price	
	per	per	
	1,000	100	1,000
12 in.	75	\$1.30	\$12.00
14 in.	90	1.40	13.00
18 in.	125	1.75	15.50
24 in.	150	2.00	19.00
30 in.	200	2.30	22.00

F.O.B. Los Angeles



Weather Proof Pencils

To be used for writing labels on garden plants. Every dahlia grower should have one of these. Will not fade in sun or rain. 10c each, 3 for 25c, postpaid.

Simplex Weatherproof Plant Labels

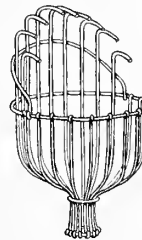


These labels are made of white celluloid and protected by transparent mica covers. They are impervious to the elements and will last indefinitely. Copper wires are included. Size 3x½ inches. 40c per dozen, \$3.00 per 100, postpaid.

Pennsylvania Fruit Picker

These pickers are made of strong galvanized wire. The fruit is pulled off the branches by the hooks and is held in the receptacle just below. We do not supply handles.

Each 85c, by mail 95c.



Grafting Wax

¼ lb. can—Repellent to Bees.....	.25
½ lb. can—Repellent to Bees.....	.40
1 lb. can—Repellent to Bees.....	.75
5 lb. can—Repellent to Bees.....	2.65
Postpaid	

Spagnum Moss

For packing. Per bale \$2.25 f. o. b. Los Angeles. Write for prices in quantity.

Green Moss

For lining hanging baskets. Per lb. 25c, postpaid.

Raffia

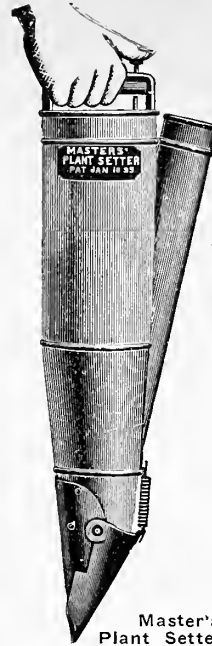
Natural raffia for tying vegetables. Pound 45c postpaid. Write for prices on larger quantities.

SEGMENT CORN PLANTER

The lightest, most accurate, strongest, cheapest and most up-to-date Planter on the market. Never cracks a kernel nor skips a hill. It is always in position, never makes a wrong move. Many gardeners are using this for their re-planting, and melon growers are using it to plant watermelons and cantaloupes. (See picture). Price—\$2.50 f. o. b. here. Weight, 5 lbs.

MASTER PLANT SETTER

The only hand mechanical plant setter on the market. No stooping when using it, therefore no lame backs. All kinds of plants — are set in water and covered at one operation. Wt. 10 lbs. Price —Each \$6.00 f. o. b. Ask for circular.

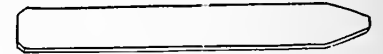


Master's
Plant Setter



Segment Corn
Planter.

Pot Labels

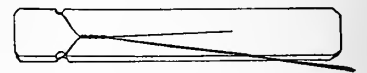


	PAINTED	Price Per 100	Price Per 1000
4 in.....		\$.30	\$ 2.50
5 in.....		.35	3.00
6 in.....		.40	3.50
8 in.....		1.00	8.75
10 in.....		1.40	12.50
12 in.....		1.65	15.00

	PLAIN	Price Per 100	Price Per 1000
4 in.....		\$.25	\$ 2.00
5 in.....		.30	2.50
6 in.....		.35	3.00
8 in.....		.90	8.00
10 in.....		1.25	11.25
12 in.....		1.50	13.50

Postpaid.

Tree Labels



	PAINTED	Price per 100	Price per 1000
3½ in. Copper Wired.....		.40	\$3.50
3½ in. Iron Wired.....		.35	3.00
3½ in. Copper Wired.....	PLAIN	.35	\$3.00
3½ in. Iron Wired.....		.30	2.50
Postpaid.			

National Eezy Wear Garden Gloves

Made from special imported hides processed to render them amazingly soft and pliable. Permit almost bare-hand freedom yet provide complete all-leather protection. Ideal for garden and similar uses. They are dirt-proof and washable. Four sizes: "Small" and "Medium" for Women, "Medium" and "Large" size for Men. Price 75c pair, postpaid.



AN ORDER FOR AGGELER & MUSSER'S SEEDS

From _____

P. O. _____

State _____

Don't Forget
to place a
2-Cent Stamp
Here

AGGELER & MUSSER SEED Co.

1934 E. 15TH ST.

LOS ANGELES

CALIFORNIA

BEFORE YOU SEAL THIS ENVELOPE

Be sure you have signed your letter or order
and given the proper address; also that you
have enclosed your money order.

Dr. Hess' Poultry and Stock Preparations

Prices are f. o. b. Los Angeles

Dr. Hess' Poultry Pan-a-min Helps to Keep Poultry Healthy and to Make Hens Lay



Pan-a-min, formerly known as Panacea should be fed regularly the year round to obtain the best results from your flock. Car loads of this proven food tonic are sold in the large poultry districts of California. It is an excellent tonic for moulting time, is an egg producer and is an economical and highly satisfactory food.

3 lb. pkg.	\$.65
7 lb. pkg.	1.25
15 lb. pkg.	2.25
25 lb. pkg.	3.50
100 lb. drum	12.00

Instant Louse Killer

Kills lice on contact on stock and poultry. Easily applied by putting in dust bath. It is non-poisonous and may be used on edible plants and flowers for plant lice. In handy sifting top cans.

1 lb. pkg.	30c
2½ lb. pkg.	60c

Antiseptic Powder

For treatment of cattle for wire-cuts, scratches, galls, and wounds. Equally valuable for household use.

4 oz. can.	25c
10 oz. can.	50c

Poultry Tablets

While there is no absolute cure for roup, Dr. Hess' Poultry Tablets are of high value in treating locally the swellings incident to the disease. The tablets are used as a local antiseptic and to medicate the drinking water.

100 tablets.	50c
225 tablets.	\$1.00

Poultry Ver-mi-trol

(For Worms in Poultry)

Ver-mi-trol is a flock treatment. No individual handling of birds is necessary. It is simply given with the feed in two 10-day courses, three weeks apart with Pan-a-min fed regularly.

4 lb. pkg., 50 hen size	\$1.50
10 lb. pkg., 125 hen size	3.25
25 lb. pkg., 300 hen size	7.50
*100 lb. drum	25.00

Chick Tablets

Most diarrhea conditions in chicks are the result of improper feeding or brooding and can be corrected by Dr. Hess' Chick Tablets.

100 tablets.	50c
225 tablets.	\$1.00

Hog Special

A conditioner and mineral supplement for hogs only.

15 lb. pkg.	\$2.25
25 lb. pkg.	3.50
100 lb. drum	12.00

Udder Ointment

Used as an emollient for swollen or bruised udders, cracked or chapped teats, chapped skin, cuts and bruises.

7 oz. can	50c
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Stock Tonic

This product has been serving the dairy interests of the country for upwards of 35 years. A summary of many comparative tests, covering three whole years shows that cows receiving Dr. Hess' Stock Tonic produce on the average, 54.9% more profit than cows not getting the Tonic.



5 lb. pkg.	\$.85
15 lb. pkg.	2.25
25 lb. pkg.	\$3.50
100 lb. drum	12.00

Dip and Disinfectant

A standardized product with an established carbolic acid co-efficient. Valuable about barns and stables; kills hog lice and other parasites and keeps down foul odors.

1½ gal. can.	\$.75
5 gal. can.	\$9.00
1½ gal. can.	1.25
30 gal. drum	41.00
1 gal. can.	2.25
50 gal. drum	65.00

Fly Spray

Dr. Hess Fly Spray is both a fly killer and repeller. It will kill flies in the stable and barn and protect cows and other animals in the pasture.

1 gal. can	\$2.25
5 gal. can	9.00
30 gal. drum	44.00
50 gal. drum	67.50

G. H. Lee's Poultry and Stock Preparations

Prices are f. o. b. Los Angeles

Germozone

Germozone is without doubt one of the most widely used poultry medicines today. The regular use of Germozone in the drinking water of chicks and adult fowls prevents the spreading of disease and counteracts infection already existing.

Liquid

4 oz. bottle.	40c
32 oz. bottle.	\$1.50
12 oz. bottle.	75c
½ gal. bottle.	2.50
1 gal. bottle.	\$4.50

Tablets

20 tablets.	25c
75 tablets.	75c
200 tablets.	\$1.50

Egg Maker

Lee's Egg Maker and Chick Grower will keep the fowls in a thrifty, vigorous condition and enable you to get a maximum production from them at all times.

2 lb. carton.	\$.50
12 lb. pail.	\$2.25
5 lb. carton.	1.00
25 lb. pail.	4.25
100 lb. drum.	\$15.00

Egg-O-Latum

For Preserving Eggs

This paste is easily applied by first smearing on the palms of the hand and then rubbing on to the egg. After applying store the eggs in cartons.

Jars sufficient for 50 doz. eggs.	\$.50
Jars sufficient for 200 doz. eggs.	1.00
Postage, 10c extra.	

Flyo Curo

This liquid preparation is sprayed lightly over the animals, forming a thin coating over the surface of the hair and protects the animals from insect attacks.

1 qt. can.	60c
½ gal. can.	90c
1 gal. can.	\$1.50

Gizzard Capsules

The gizzard Capsule is five times as effective as worm medicine given in feed and water. It is as easy to give as a pill. It carries the strong medicines in their full strength direct to the gizzard.

Adult Size

50 capsules	\$1.00
100 capsules	1.75
250 capsules	4.00
500 capsules	7.00
1,000 capsules	12.00

Chick Size

50 capsules	\$.50
100 capsules .....	.90
250 capsules	2.00
500 capsules	3.50
1,000 capsules	6.00

Nicotine Gizzard Capsules

This special capsule has all the features of the Gizzard Capsule but contains only medicine for the removal of round worms in poultry.

100 capsules for adults	\$.75
1,000 capsules for adults	4.50
100 capsules for chicks .....	.50
1,000 capsules for chicks	3.00

Lee's Dip and Disinfectant

A standardized coal tar creosote stock dip and disinfectant.

1 qt. can.	75c
½ gal. can.	\$1.25
1 gal. can.	\$2.00

Lice Killer

The standard poultry house insecticide for years. It will rid the house of mites.

1 qt. can.	60c
½ gal. can.	90c
1 gal. can.	\$1.50
5 gal. can.	6.50

Lee's Louse Powder

Keeps the fowls free from lice and mites.

1 lb. can.	30c
2½ lb. can.	60c

Tobacco Worm Powder

For use in eradicating the large round intestinal worms in chickens.

Can—sufficient for 100 birds.	20c
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Poultry Nasal Syringes

Syringe specially designed for applying Germozone in the case of Swelled Head in poultry. Each 75c.

Syringes (Poultry)

Made especially to administer medicine directly into the crop of the chicken. Each 35c.

Lee's Vapo-Spray

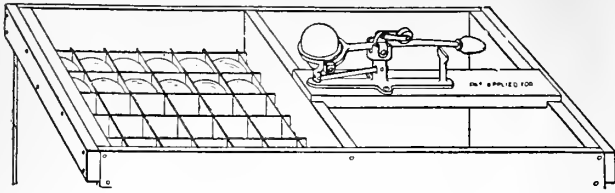
The most effective medicine for colds, coughs and pneumonia. Simply spray the air in the hen house at night.

1 qt. can.	75c
½ gal. can.	\$1.25
1 gal. can.	\$2.25

Lee's Flu-Koff

An emulsion given in wet mash or soaked oats in the cases of colds and flu in chickens. An effective companion of Vapo-Spray.

12 oz. bottle.	\$1.25
½ gal. bottle.	\$3.75
32 oz. bottle.	2.25
1 gal. bottle.	7.00

RELIABLE EGG SCALE

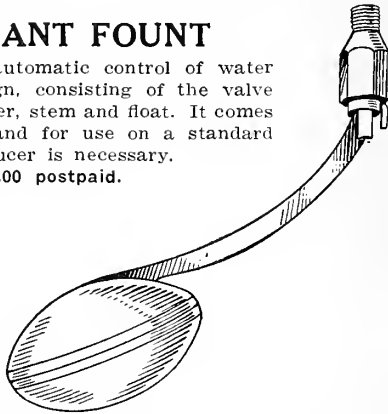
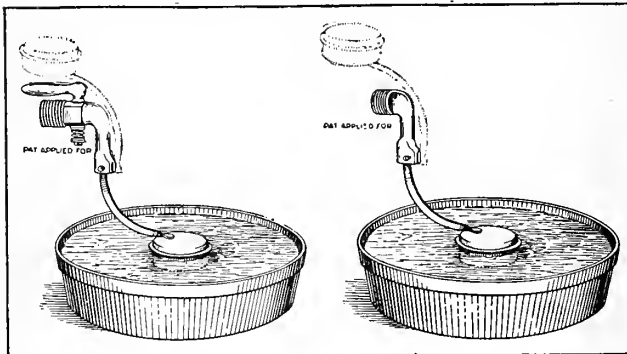
The RELIABLE Egg Scale is built for speed, accuracy and endurance. It has a quick double shift, just a flip of the finger, and you can get all the weights required with the one shift, thereby taking the place of two scales.

Price \$2.90 each, f. o. b. Los Angeles; \$3.00 postpaid.

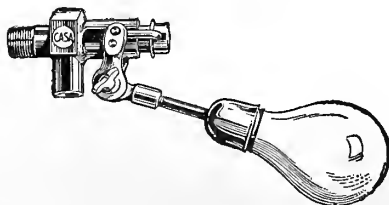
LITTLE GIANT FOUNT

This valve for the automatic control of water is of very simple design, consisting of the valve body, plunger and washer, stem and float. It comes with $\frac{1}{2}$ inch bushing and for use on a standard $\frac{3}{4}$ inch pipe line a reducer is necessary.

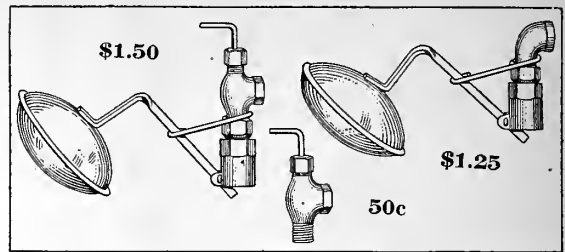
Price \$1.00 postpaid.

**RELIABLE AUTOMATIC FOUNT**

Especially designed for poultry ranches. Is made entirely of brass and copper and will last indefinitely. Capacity about one quart per minute. Easily installed and will work under any water pressure. Complete, \$1.35. Without Shut-off Valve, \$1.00. (Postpaid)

CASA FOUNT

The float consists of an ordinary electric globe which can be replaced by any burnt out globe from the house. The water level is regulated by a simple method of adjusting the float. Can be simply and effectively shut off. Very efficient and durable. Price \$1.35 postpaid.

THE WATER BOY

No. 1 No. 2 No. 3
Automatic Fountain for Poultry and Pet Stock

The No. 1 Water Boy Combination shown above includes pressure regulating shutoff, with automatic float valve. The automatic may be detached from the upper shutoff without disturbing the water line and the fowls need not be without water as the shutoff may be used alone as a drip. The Combination No. 1 with brass lever and brass float \$1.50.

No. 2—Fig. No. 2 above shows shutoff valve and this may be used alone as a drip valve or in combination with automatic valve. No. 2 drip valve price 50c.

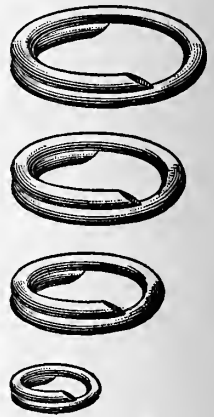
No. 3—As shown above this is the Water Boy automatic float valve with brass lever, brass float and street ell. No 3 Combination \$1.25.

LEG BANDS FOR POULTRY

Spir-ol Leg Bands are made in all colors and all sizes, and are put on and taken off like a key ring. Can't drop off. Colors are black, white, red, yellow, blue, green, purple, light blue, maroon and pink. In ordering please state color wanted, also name of breed, Leghorn, Rocks, Rhode Island Reds or Turkeys. It enables us to fill the order satisfactorily. Prices:

12 Bands for.....	\$.15 postpaid
25 Bands for.....	.25 postpaid
50 Bands for.....	.50 postpaid
100 Bands for.....	.75 postpaid
500 Bands for.....	3.60 postpaid
1000 Bands for.....	7.00 postpaid

Spir-ol Band for Chick, Bantam and Pigeon size as follows: 12 for 15c; 25 for 25c; 50 for 40c; 100 for 65c; 500 for \$3.00; 1000 for \$5.50. These bands come in the same colors as given above for Poultry Bands.



Spir-ol Leg Bands



FLAT ALUMINUM
LEG BANDS
These bands fit
any variety fowls.

Price—(Numbers run from 1 to 1,000) (25 for 30c) (50 for 50c) (100 for 75c) postpaid.

**ECLIPSE DOUBLE NUMBER COLORED—
For Chickens**

In Unbroken Sets Only

Large double numbers on colored background. In 12 colors, 3 sizes. State breed and set. (12 for 40c) (25 for 75c) (50 for \$1.45) (100 for \$2.75) postpaid.

ELITE PIGEON BANDS

Carried in all colors and in unbroken sets only.



6 pairs.....	25c
12 pairs.....	50c
25 pairs.....	\$1.00
50 pairs.....	\$2.00

Postpaid

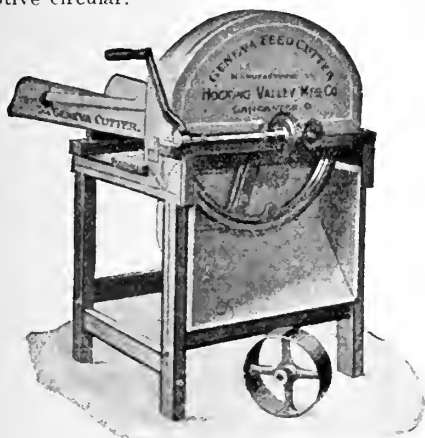
**POULTRY
PUNCHES**

A Practical Punch for
Marking Baby Chicks
Petty's, 25 ea. postpaid.



GENEVA FEED CUTTERS

This ideal feed cutter is adaptable to all kinds of feed, green or dry, from the finest prairie grass to the largest corn stalks, and it is the most satisfactory machine for the poultry raiser. The knives are on a balanced wheel and the machine can be regulated to cut from $\frac{1}{8}$ to $1\frac{1}{4}$ inches, which is a very popular feature. All parts are adjustable to wear and replaceable, giving the machine long life. The frames are hardwood, finished in natural color. May be used as a hand or power machine. No. 4 size—weight 176 lbs., \$47.50 f. o. b. Los Angeles. Write for descriptive circular.



A & M Egg Boxes



These boxes are strong and neatly made, partitions full, thus protecting the eggs.

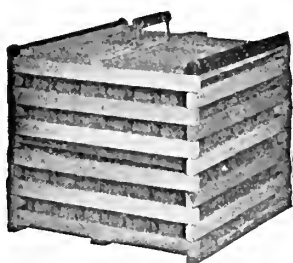
Very convenient for marketing eggs by the dozen.

PRICES

2x6—
Doz. 30c; 100, \$2.00
3x4—
Doz. 25c; 100, \$1.85
F.O.B. Los Angeles.

HUMPTY-DUMPTY EGG CARRIER

One of the handiest egg carriers on the market. This carrier will hold twelve (12) dozen eggs. Can be folded flat for shipment and is made of strong but light wooden slats fastened with strong steel wires. Very handy and something every poultryman should have. Price, \$1.10 each, f. o. b. Los Angeles. Weight 6 lbs.



CAPONIZING SETS

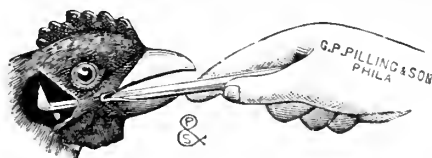
This set is one of the latest design. It is a combination of tools that can be used with one hand and seldom causes the loss of the bird.

We carry the following sets:
Pillings Cornell\$5.50
Pillings Farmer4.00
Pillings Special5.00

We suggest that you use either the Cornell or Farmer. They are packed in a fine oak case. Each set contains full instructions.



PILLING ANGULAR KILLING KNIFE



Showing the Angular Killing Knife

By simply turning the wrist the jugular vein and spinal cord are cut, thereby bleeding the fowl, allowing the feathers to be removed without using water. 85c postpaid.

FRENCH POULTRY KILLING KNIFE

Every poultry raiser should have one of our Killing Knives. They are made of a finely tempered instrument steel with nicked handle; will last a lifetime. Don't wait. Send for one now. Sent securely packed by mail. 85c postpaid.



SEARCHLIGHT EGG TESTER



Infertile eggs in an incubator mean a loss of time and money. The testing of eggs is a very important part of incubation and a little expense at the beginning will pay well in the end. The Searchlight will do the job quickly and do it well. It should be a part of your equipment, whether you are operating one incubator or a dozen. Postpaid \$5.00.

A & M Egg Testers

No. 2—Tin with opening on side 40c postpaid.
No. 3—Tin made to fit any lamp, 50c postpaid.



BUHACH POWDER

For dusting setting hens and baby chicks. No danger in using it. (Pkgs. 25c) (3 oz. 50c) (6 oz. 75c) (12 oz. \$1.25) (5 lbs. \$6.75) f.o.b. Los Angeles.

Diversol CLEANS — DESTROYS BACTERIA — DEODORIZES

Diversol is sodium hypochlorite chemically combined with alkaline phosphate in crystalline form. It is a wonderful new product for sterilizing, cleaning and deodorizing. It is non-poisonous and can be used in cold or lukewarm water.

For the Poultryman—Used in the drinking water Diversol destroys bacteria instantly and stops further communication from diseased birds to the rest of the flock. It is also a specific for treatment of colds, roup, chicken pox and favus. As a spray for incubators it is indispensable.

For the Dairy Farmer—Diversol fulfills a long felt want for a product to take the place of steam and hot water for sterilizing all dairy equipment. One pound is sufficient to make 100 gallons of rinsing solution.

For General Household Use—Diversol offers many advantages to the housewife in cleaning and deodorizing refrigerators, bread boxes, garbage cans and so forth. For laundering, dishwashing and bathing it softens the water and eliminates soap deposit. It removes stains and bleaches cottons and linens. Full directions with each package.

2 lb. pkg. \$1.00, 10 lb. pkg. \$4.00, 25 lb. pail \$8.75; postage extra.

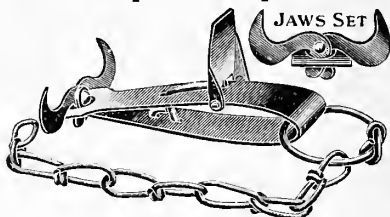
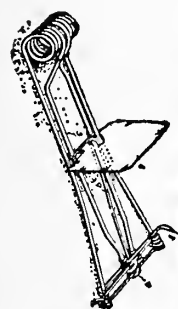


Chubbuck Double Catch Gopher Trap**OLD GOPHER
CAUGHT BY
OUTSIDE SPRING**

The double spring system of this trap is very effective in catching both large and small gophers. Price 60c, postpaid.

A & M Victor Gopher Trap

Because of self-setting jaws this trap is extremely easy to set and is always open when set. It fits snugly in a gopher hole without digging and it is equipped with an anchor chain. Very sturdy. Price postpaid 30c.

**JAWS SET****Macabee Gopher
Trap****Easy-Set
Mole Trap****Macabee Gopher Trap**

This is the most convenient gopher trap yet manufactured. It is easy to set, small and can be extended far down into the hole. Price postpaid, 30c.

Box Gopher Trap

This trap is used extensively by gardeners. Is easy to set and sure. Price by mail 40c.

Easy Set Mole Trap

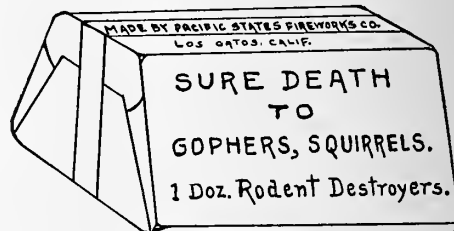
Catches them going and coming. A child can set it with perfect safety. Price \$1.25, by mail \$1.35.

**Gopher Scent**

The scent attracts the gopher and draws him to the bait. We have had some wonderful reports on Gopher Scent and feel that we cannot recommend it too highly. (Small pkt. 35c) (medium size 50c) (5 lb. tin \$2.00) (15 lb. pkg. \$6.00) (100 lb. tin \$25.00) f. o. b. Los Angeles. Cannot be mailed.

Rat Scent

A specially prepared poisoned grain. The scent attracts rats and mice to the bait and the grain itself is agreeable to their taste. Place it in small piles around holes and places they frequent. It is very effective. (Small pkg. 35c) (Medium size 50c) (5 lb. tin \$2.00) (15 lb. drum \$6.00) (100 lb. tin \$25.00). Cannot be mailed.

"Dead Sure Rodent Destroyer"**Gopher-Gas Balls**

Are used by lighting and rolling into the burrows of the gopher, the same as the Gopher Candle. (Per doz. 60c) (Box of 125, \$3.75.) postpaid. Can be sent by mail.

Cyanogas for Gophers—See Page 85

BIRD SUPPLIES**HALLER'S BIRD FOODS
AND REMEDIES**

We have found Haller's Bird Supplies to be a very superior line in every way. Apart from the value of the contents the bottles and containers are packed in a very efficient manner, thus preventing any deterioration through worms.

**Pkg. or
Bottle**

- Dutch Song Restorer**—Keeps canaries in full song. Good in cases of Asthma and Diarrhea. It never fails\$2.50
- Bird Bitters**—A splendid remedy for loss of song, weakness, moulting, etc.\$2.00
- Bird Pie**—Can be fed all the year for best condition and full song. A treat\$1.50
- Bird Nesting**—Essential at breeding time\$1.00
- Bird Tonic**—Call for this when the bird has a cold. It is a preventative as well as a relief for all diseases\$2.50
- Canary Color Food**—Will bring out that bright yellow in both young and old\$2.50
- Moulting Food**—A tonic food for feeding during the moulting period\$2.50

- Health Food**—Should be fed at commencement of breeding. A fine builder\$2.50
- Feather Restorer**—For bald headed birds\$2.50
- Sure Egg Maker**—Makes the hen birds lay\$3.50
- Nesting Food with Cod-Liver Oil**—A bone and body builder. Essential to young birds\$1.50
- Mocking Bird Food**—For soft bill birds\$3.50
- Parrot Food**—A balanced ration for parrots\$2.50
- Parrot Tonic**—A preventative as well as cure for all diseases\$2.50
- Sore and Scaly Leg Oil**—Valuable for treating stings, insect bites, etc.\$2.50
- Mite Powder in Bellows**—Useful for dusting the cage as well as the bird. Dust under the wings and the bird will spread the powder over itself\$3.00
- Cage Wash**—A good spray for killing all mites and mite eggs in cages\$2.50
- Japanese Sun Dried Pepper Pods**—Beneficial during cool weather\$1.00
- Crush Hemp and Pepper**—Half teaspoonful should be fed three times weekly\$1.00
- Maw or Poppy Seed**—For mixing with regular seed about twice a week\$2.50
- Haller's Canary and Parrot Guide** Sent Free on Application

A & M Roller Mixture

Contains the very best imported Sweet German Rape and clean plump canary seed. This mixture will keep the bird in song and in good health. 1 lb. pkg. 20c; 5 lbs. 85c. Postage extra.

A & M Mixed Bird Seed—Recommended for home raised birds. 1 lb. pkg. 15c; 5 lbs. 65c. Postage extra.

Bird Manna, pkg.15c
Canary Seed, 1 lb.15c
Hemp, 1 lb.10c
Millet, large, 1 lb.10c
Millet, small, 1 lb.10c
Rape, Ford, 1 lb.10c
Rape, Sweet German, 1 lb.10c
Sunflower, 1 lb.10c
A & M Gravel (2-lb. carton)10c
Cuttle Bone, each05c
Book, Amer. Canary Bird Culture35c
(Postage extra)

Miller's Song Restorer Bird Food

Keep your bird healthy, full of pep and full of song with Miller's Bird Food. This scientifically balanced health food was developed from an old Southern formula, tested and proved by years of success with thousands of canaries. Then to this formula have been added the vitamins that maintain health and develop brilliant plumage. Pkt. 10c; postage extra.

Fish Food

A & M Natural Fish Food—Contains a nicely balanced food for fish such as they would like in their natural state. Pkt. 10c.

Miller's Fish Food—A new product for giving health and vigor to the fish. Pkt. 10c.

Dog and Cat Preparations

MILLER'S A-1 DOG FOODS

Miller's A-1 Products were originated and are being manufactured by men who own and love dogs. They are offered as a high quality food and are not a product of any other line of manufactured foodstuffs. There is no set rule for feeding the dog. Size along would break any feeding rule. Any dog enjoys an occasional change of diet the same as human beings and for this reason Miller's A-1 Dog Foods are offered in a variety. First, there is the well-known Biscuit, then the Kibbled Biscuit, and the Rations. The last named is splendid for an occasional change. Write for free booklet, "THE PINK OF CONDITION," a treatise on dogs.



Miller's A-1 Biscuit

If your dog is not accustomed to eating Miller's A-1 Biscuit, it is suggested that the change be made gradually. A-1 Biscuit is made of fresh beef, wheat, oatmeal, corn, cod liver oil and bone. The vitamins are there and dogs thrive on this biscuit.

25 lb. sack	\$ 3.10
50 lb. sack	6.00
100 lb. sack	11.50

F.O.B. Los Angeles.

Miller's A-1 Kibbled Biscuits



This is Miller's A-1 broken up into convenient form for mixing with meats, soups, gravy, vegetables, etc.

25 lb. sack	\$ 3.15
50 lb. sack	6.10
100 lb. sack	11.75

F.O.B. Los Angeles.

Miller's A-1 Ration



A granular cereal meat food, thoroughly cooked, ready for use. For all breeds and ages.

25 lb. sack	\$2.50
50 lb. sack	5.00
100 lb. sack	9.75

F.O.B. Los Angeles.

Miller's A-1 Puppy Meal



Especially adapted for the tender digestive organs of young puppies. It insures good bone and muscle for growing dogs. It should be fed with easily digested foods such as milk, soups, or finely ground meat.

25 lb. sack	\$ 3.15
50 lb. sack	6.10
100 lb. sack	11.75

F.O.B. Los Angeles.

MILLER'S A-1 VITAMIL

Vitamil is a scientific combination of yeast, cod liver oil, calcium phosphate, linseed, charcoal and other healthful ingredients. Vitamins and minerals are needed by all meat-eating animals, rabbits, poultry, and birds, for proper growth and good health. Vitamil will provide these essentials inexpensively. 4 oz. can 50c, 8 oz. can 75c, 16 oz. can \$1.25, postage extra.

MILLER'S Quick Lunch CANNED BEEF

A thoroughly cooked ready to serve food, containing clean, wholesome meat, cereals and cod liver oil of the correct proportions for puppies and grown dogs of all breeds. 1 lb. can 10c, postage extra.

MILLER'S A-1 DOG SOAP

Kills fleas and similar vermin. Keeps the scalp healthy; deodorizes and insures a glossy coat. Per bar 25c postpaid.

Clayton's Dog and Cat Remedies



BOOK ON DOG DISEASES-AND HOW TO FEED-FREE

The success Dr. Clayton's Remedies enjoy is due to the fact that each remedy is composed of the best drugs known to science for the disease for which they are prescribed.

The pills and tablets are put up in the smallest form possible to contain the proper dose, thus making them easy to administer.

Clayton's Dog Remedies

Sarcotic Mange Remedy	60c
Skin Lotion	60c
Hair Tonic	60c
Keteraline Distemper Liquid	60c
Condition Pills with Pepsin	60c
Alterative Pills—Blood Purifying	60c
Carminative Digestive Tablets	60c
Laxative Pills	60c
Worm Pills	60c
Tape Worm Expeller	60c
Vermifuge Soft Capsules	60c
Vermifuge	60c
Canker Lotion	60c
Keteraline Distemper Tablets	60c

Eye Lotion	60c
Sedative Fit Remedy	60c
Cough Syrup	60c
Sulphur Tablets	60c
Puppy Tonic	60c
Diuretic Rheumatic Tablets	60c
Bowel Constringent	60c
Diarrhoea Remedy Liquid	60c
Ceoline Wash and Disinfectant	35c
Shampoo	25c
Killflea Soap	25c
Killflea Powder	35c
Cream Soap	25c
Ceoline Soap	25c
Cod Liver Oil	\$1.00
Goitre Medicine	\$1.00

Clayton's Cat Remedies

Write for Clayton's "Treatise on the Cat."	
Sarcotic Mange Remedy	60c
Keteraline Distemper Liquid	60c
Keteraline Distemper Tablets	60c
Tonic Catnip and Condition Tablets	60c
Alterative Tablets—Blood Purifier	60c
Carminative Digestive Tablets	60c
Laxative Tablets	60c
Worm Tablets	60c
Tape Worm Expeller Tablets	60c
Vermifuge Liquid	60c
Canker Lotion Tablets	60c
Eye Lotion Tablets	60c
Sedative Fit Tablets	60c
Cough Syrup	60c
Bowel Constringent	60c
Mouth Wash	60c
Wash and Disinfectant	25c
Cat Soap	25c
Cod Liver Oil	\$1.00

CATNIP MICE

Your cat will enjoy a catnip mouse and you will enjoy seeing the play.

Each 15c postpaid.



PULVEX

The Popular Flea Powder

Pulvex is based on an entirely different flea-killing principle. Its use always kills all the fleas and lice instead of only stupefying them, allowing them later to reinfest the animal. It is absolutely harmless even if swallowed. Pulvex is ideal for cats and birds as well as dogs.

For Canaries— $\frac{3}{4}$ oz. can 25c, Puff gun 35c.

For Animals—2 oz. can 50c, 12 oz. \$1.25, 5 lb. \$6.00. Postage extra.

PULVEX DOG SOAP

This fine English style dog soap will not only free a dog of all its fleas and lice but grooms as it cleans. It contains the same active flea-killing agent found in Pulvex Flea Powder. Cake (in metal container) 50c, by mail 55c.

Owing to the diversity of the soil and climatic conditions of the great Southwest, it is impractical to follow without some deviation any table that might be formulated. We believe this table is as nearly correct as any table can be made, yet the time of planting must vary with each season, and so seldom are the seasons at all similar that there is always an element of risk for the man who plants early. Each month, too, requires certain varieties best suited to the season and purpose for which it is planted.

VEGETABLE CALENDAR FOR THE HOME GARDEN

VARIETY	NO. OF PLANTS PER OUNCE OF SEED	SEED FOR 50 feet	ROWS APART	APART IN ROWS	TIME OF PLANTING	READY FOR USE
Artichoke.....	200	12 plants	4 ft.	4 ft.	Dec. to April	5 mo.
Asparagus.....	150	50 roots	20 in.	1 ft.	Dec. to April	2nd spring
Beans, Bush.....	50 to 100	2 pkts.	2 ft.	6 in.	March to Sept.	8 to 12 wks.
Beans, Pole.....	50 to 100	2 pkts.	3 ft.	12 in.	April to Aug.	10 to 12 wks.
Beans, Lima.....	30 to 60	$\frac{1}{4}$ lb.	2 ft.	10 in.	April to Aug.	12 to 14 wks.
Beets.....	300	1 pkt.	10 in.	6 in.	All year	10 to 12 wks.
Cabbage.....	2000	36 plants	20 in.	15 in.	All year	14 to 16 wks.
Carrot.....	1500	1 pkt.	10 in.	Sow	All year	8 to 10 wks.
Cauliflower.....	2000	30 plants	20 in.	18 in.	Sept. to March	14 to 16 wks.
Celery.....	.....	100 plants	20 in.	6 in.	March to Aug.	16 to 18 wks.
Corn, Sweet.....	100	1 pkt.	2 ft.	18 in.	March to Aug.	10 to 12 wks.
Cucumber.....	200	1 pkt.	4 ft.	3 ft.	March to Sept.	10 to 12 wks.
Endive.....	1000	1 pkt.	1 ft.	10 in.	Sept. to March	14 to 18 wks.
Eggplant.....	500	24 plants	2 ft.	2 $\frac{1}{2}$ ft.	April to July	10 to 12 wks.
Kale.....	1000	30 plants	2 ft.	18 in.	All year	8 to 10 wks.
Kohl Rabi.....	1000	1 pkt.	10 in.	Sow	All year	10 to 12 wks.
Lettuce.....	200	1 pkt.	15 in.	10 in.	All year	12 to 16 wks.
Musk Melon.....	200	1 pkt.	4 ft.	3 ft.	March to July	14 to 18 wks.
Water Melon.....	100	1 pkt.	6 ft.	4 ft.	March to July	16 to 20 wks.
Okra.....	150	1 pkt.	2 ft.	18 in.	April to July	10 to 12 wks.
Onion Seed.....	500	1 pkt.	10 in.	Sow	All year	24 to 28 wks.
Onion Sets.....	.....	1 lb.	10 in.	3 in.	All year	14 to 18 wks.
Parsnips.....	300	$\frac{1}{2}$ ounce	2 ft.	Drill	Aug. to March	14 to 18 wks.
Parsley.....	400	1 pkt.	10 in.	Sow	All year	12 to 14 wks.
Pepper.....	1000	30 plants	20 in.	18 in.	April to July	10 to 12 wks.
Potatoes.....	.....	5 lbs.	2 ft.	1 ft.	March to Aug.	10 to 14 wks.
Sweet Potatoes.....	.....	50 plants	3 ft.	1 ft.	April to July	10 to 12 wks.
Pumpkin.....	100	1 pkt.	6 ft.	5 ft.	April to July	12 to 14 wks.
Peas.....	50	$\frac{1}{4}$ lb.	2 ft.	Sow	Sept. to March	14 to 20 wks.
Radish.....	500	1 pkt.	10 in.	Sow	All year	4 to 8 wks.
Rhubarb Roots.....	.....	24 roots	3 ft.	2 ft.	Dec. to March	8 to 10 wks.
Roselle.....	150	1 pkt.	3 ft.	2 ft.	April to May	18 to 20 wks.
Salsify.....	200	1 pkt.	10 in.	Sow	Sept. to March	14 to 18 wks.
Spinach.....	200	1 pkt.	12 in.	Sow	Sept. to April	8 to 12 wks.
Squash, Summer.....	100	1 pkt.	3 ft.	3 ft.	April to Aug.	10 to 12 wks.
Squash, Winter.....	100	1 pkt.	6 ft.	4 ft.	April to Aug.	12 to 16 wks.
Tomato.....	1000	18 plants	4 ft.	3 ft.	March to Aug.	12 to 14 wks.
Turnip.....	2000	1 pkt.	10 in.	Sow	Sept. to March	10 to 12 wks.

The soil should be Moist enough at time of planting to germinate the seed without irrigation. The depth of planting in heavy soil should be from ¼ in. for very small seed to 1 in. for beans and peas, in sandy soil the seed may be planted from ½ in. to 2 inches.
In frostless sections the time of planting summer crops may be advanced a full month.

VEGETABLE CALENDAR FOR FIELD PLANTING

VARIETY	SEED PER ACRE	ROW APART	APART IN ROW	WHEN TO PLANT	TIME TO MATURE	APPROXIMATE YIELD AND VALUE PER ACRE
Artichoke.....	1 lb.	5 ft.	4 ft.	Oct. to Jan.	18 to 20 wks.	
Asparagus—roots.....	11000	4 ft.	1 ft.	Dec. to Feb.	1 year	
Asparagus, seed.....	3 lbs.	2 ft.	Drill	Feb. to March	2 years	
Beans, bush.....	40 lbs.	2 ft.	Drill to 6 in.	March to Aug. 1st	8 to 12 wks.	3 tons \$300
Beans, pole.....	30 lbs.	3 ft.	12 in.	April to July 1st	10 to 12 wks.	4 tons 400
Lima, bush.....	50 lbs.	32 in.	Drill to 6 in.	April to Aug. 1	10 to 12 wks.	4 tons 400
Lima, pole.....	40 lbs.	3 ft.	12 in.	April to Aug. 1	12 to 14 wks.	4 tons 400
Beets, table.....	10 lbs.	Double row	Drill	All Year	10 to 12 wks.	12 tons 400
Beets, stock.....	8 lbs.	16 in.	Drill	Oct. to May 1	14 to 18 wks.	50 tons 400
Carrots, table.....	3 lbs.	Double row	Drill	All year	10 to 12 wks.	12 tons 300
Carrots, stock.....	3 lbs.	16 in.	Drill	Oct. to May 1	12 to 18 wks.	18 tons 200
Cabbage, plants.....	8000	30 in.	18 in.	All year	14 to 16 wks.	12 tons 200
Cabbage, seed.....	5 oz.	8 in. seed bed	Drill	All year	20 to 26 wks.	12 tons 200
Cauliflower, plants.....	7000	3 ft.	2 ft.	May to Feb. 1	14 to 16 wks.	
Cauliflower, seed.....	5 oz.	8 in. seed bed	Drill	May to Feb. 1	20 to 24 wks.	500 doz. 250
Celery, plants.....	30,000	30 in.	6 in.	March to Aug. 1	16 to 18 wks.	
Celery, seed.....	¼ lb.	8 in. seed bed	Drill	March to Aug. 1	24 to 26 wks.	2000 doz. 600
Corn, Sweet.....	10 lbs.	3 ft.	18 in.	March to Aug. 1	10 to 12 wks.	400 box 150
Cucumbers.....	2 lbs.	4 ft.	3 ft.	March to Sept. 1	10 to 12 wks.	600 box 200
Endive (Chicoree).....	2 lbs.	Double row	Drill and thin to 10 in.	Sept. to Feb. 1	14 to 18 wks.	2000 doz. 600
Eggplant, plants.....	7,000	3 ft.	2 ft.	April to July 1	10 to 12 wks.	
Eggplant, seed.....	¼ lb.	Hot bed	8 in.	Dec. to Feb. 1	18 to 20 wks.	10 tons 600
Kale.....	2 lbs.	3 ft.	Drill	Sept. to March 1	8 to 10 wks.	
Kohl Rabi.....	2 lbs.	Double row	Drill	Sept. to March 1	10 to 12 wks.	12 tons 300
Lettuce.....	2 lbs.	Double row	Drill and thin to 10 in.	All year	12 to 15 wks.	500 crates 500
Musk Melon.....	1 lb.	6 ft.	4 ft.	Feb. 15 to June 15	14 to 18 wks.	400 crates 200
Water Melon.....	1 lb.	9 ft.	8 ft.	Feb. 15 to June 15	16 to 20 wks.	15 tons 150
Casaba.....	1 lb.	8 ft.	8 ft.	Feb. 15 to June 15	16 to 20 wks.	12 tons 300
Okra.....	6 lbs.	3 ft.	18 in.	March to Aug. 1	10 to 12 wks.	400
Onion Seed.....	2 lbs.	Double row	Drill	Sept. to April 1	24 to 28 wks.	200 crates 200
Onion Sets.....	250 lbs.	Double row	4 in.	Dec. to Feb. 1	14 to 18 wks.	
Parsley.....	4 lbs.	Double row	Drill	Aug. to April 1	12 to 14 wks.	600
Parsnip.....	5 lbs.	2 ft.	Drill	Aug. to March 1	14 to 18 wks.	400 sks. 200
Peas.....	50 lbs.	30 in.	Drill to 6 in.	Sept. to March 1	14 to 20 wks.	4 tons 400
Pepper, plant.....	9,000	3 ft.	18 in. or drill seed in.	April to June 1	10 to 12 wks.	
Pepper, seed Field planting.....	1	3 ft.	field and thin to 18 in.	Jan. to April 1	18 to 20 wks.	10 tons 200
Pepper seed in seed bed.....	6 oz.	8 in.	drill	Jan. to April 1		
Potatoes, Irish.....	600 lbs.	3 ft.	1 ft.	Feb. to Sept. 1	10 to 14 wks.	100 sks. 150
Potatoes, Sweet, plants.....	12,000	3 ft.	1 ft.	April to July 1	10 to 12 wks.	
Potatoes, Sweet, seed.....	400 lbs.	Hotbed		Jan. to Feb. 1	18 to 20 wks.	150 sks. 300
Pumpkin.....	1 lb.	10 ft.	10 ft.	April to July 1	12 to 14 wks.	20 tons 100
Radish.....	12 lbs.	Double row	Drill	All year	4 to 8 wks.	400
Rhubarb, roots.....	5,445	4 ft.	2 ft.	Sept. to April 1	8 to 10 wks.	400
Rhubarb, seed.....	¼ lb.	Double row	Drill	Jan. to April 1	16 to 20 wks.	
Roselle.....	3 lbs.	5 ft.	3 ft. thin to 1 plant	April to May	18 to 20 wks.	6 tons 500
Spinach.....	12 lbs.	Double row	Drill to 6 in.	Oct. to April 1	8 to 12 wks.	150
Squash, Summer.....	2 lbs.	4 ft.	3 ft.	March to Aug. 1	10 to 12 wks.	300
Squash, Winter.....	1½ lb.	10 ft.	6 ft.	April to Aug. 1	12 to 14 wks.	12 ton 200
Salsify.....	6 lbs.	Double row	Drill	Sept. to April 1	14 to 18 wks.	8 tons 300
Tomato Plants.....	1,200	6 ft.	6 ft.	March to Aug. 1	12 to 14 wks.	10 ton 150
Tomato, seed.....	2 oz.	Hot bed, Jan.	Out door drill 10 in.	March to June 1	18 to 20 wks.	
Turnip.....	3 lbs.	Double row	Drill	All year	10 to 12 wks.	12 tons 200

Number of Plants to Acre		DISTANCE APART		No. Plants	DISTANCE APART		No. Plants	Average Time Required for Seeds to Sprout							
Set at Regular Distances Apart		DISTANCE APART		No. Plants	DISTANCE APART		No. Plants								
1 ft. by 6 in.	87,120	5 ft. by 2 ft.	4,356	30 ft. by 30 ft.	48	Bean	5-10 days								
2 ft. by 6 in.	43,560	5 ft. by 3 ft.	3,904	33 ft. by 33 ft.	40	Beet	7-10 "								
2 ft. by 12 in.	26,780	5 ft. by 4 ft.	2,173	40 ft. by 40 ft.	27	Cabbage	5-10 "								
2 ft. by 18 in.	14,520	5 ft. by 5 ft.	1,742	50 ft. by 50 ft.	12	Carrot	12-18 "								
2½ ft. by 12 in.	17,420	6 ft. by 3 ft.	2,420	60 ft. by 60 ft.	17	Cauliflower	5-10 "								
2½ ft. by 18 in.	11,616	6 ft. by 4 ft.	1,815	66 ft. by 66 ft.	10	Celery	10-20 "								
2½ ft. by 2 ft.	8,712	6 ft. by 6 ft.	1,200	<div>Rule.—Multiply the distance in feet between the rows by the distance the plants are apart in the rows, and product will be the number of square feet for each plant or hill; which divided into the number of square feet (43,560), will give the number of plants to the acre.</div>						Corn	5-8 "				
3 ft. by 1 ft.	14,520	7 ft. by 7 ft.	888							Cucumber	6-10 "				
3 ft. by 1½ ft.	9,924	8 ft. by 8 ft.	680							Lettuce	6-8 days				
3 ft. by 2 ft.	7,260	9 ft. by 9 ft.	537							Onion	7-10 "				
3 ft. by 3 ft.	4,840	10 ft. by 10 ft.	435							Pea	6-10 "				
4 ft. by 1 ft.	10,890	11 ft. by 11 ft.	360							Parsnip	10-20 "				
4 ft. by 2 ft.	5,445	12 ft. by 12 ft.	302							Pepper	9-14 "				
4 ft. by 3 ft.	3,630	14 ft. by 14 ft.	222							Radish	3-6 "				
4 ft. by 4 ft.	2,722	15 ft. by 15 ft.	193							Tomato	6-12 "				
5 ft. by 1 ft.	8,712	16 ft. by 16 ft.	170							Turnip	4-8 "				
		17 ft. by 17 ft.	150							Plant radishes with slow growing vegetables to mark the rows for cultivation.					
		18 ft. by 18 ft.	134												
		19 ft. by 19 ft.	120												
		20 ft. by 20 ft.	108												
		25 ft. by 25 ft.	69												

CALENDAR FOR FORAGE AND FIELD CROPS

VARIETY	SEED PER ACRE	HOW TO PLANT	YIELD OF FORAGE	YIELD OF GRAIN LBS.
Alfalfa.....	20 lbs.	Drill or Broadcast	8 to 10 tons	600
Alfilaria.....	10 lbs.	Drill or Broadcast	3 tons hay or pasture	
Beans—Bush.....	25 to 40 lbs.	Drill in rows 2 ft. apart		1500 to 2000
" Lima.....	50 to 60 lbs.	Drill in rows 3 ft. apart		1500 to 2000
" Windsor.....	75 to 100 lbs.	Drill in rows 2 ft. apart	Cover crop	2000
Beets—Stock.....	8 lbs.	Drill in rows 1 ft. apart	20 to 25 tons beets	
Cane or Sorghum.....	5 to 40 lbs.	Drill 5 or broadcast 40	15 to 20 tons green fodder	
Carrots—Stock.....	4 lbs.	Drill in rows 18 in. apart	20 to 25 tons carrots	
Clover—Burr.....	20 lbs.	Drill or Broadcast	Pasture or cover crop	
" Hubam.....	10 lbs.	Drill or Broadcast	Pasture or cover crop	
Corn—Indian.....	10 lbs.	Drill 2 ft. apart in rows 3 ft. apart		3000 to 4000
" Ensilage.....	40 lbs.	Drill 1 ft. apart in rows 30 in. apart	20 to 40 tons ensilage	
" Broom.....	5 lbs.	Drill in rows 3 ft. apart	1/2 ton broom straw	1500
" Egyptian.....	3 lbs.	Drill in rows 3 ft. apart	2 tons dry	2500 to 4000
" Kaffir.....	3 lbs.	Drill in rows 3 ft. apart	2 tons dry	3000
" Pop.....	6 lbs.	Drill 1 ft. apart in rows 30 in. apart		1500 to 2000
Cotton.....	15 lbs.	Drill 18 in. apart in rows 4 ft. apart	1 to 1 1/2 bales and seed	
Cow Peas.....	40 lbs.	Drill 1 ft. apart in rows 3 ft. apart	Pasture or cover crop	1500
Feterita.....	3 lbs.	Drill in rows 3 ft. apart	2 tons dry	2500 to 4000
Grain—Barley.....	80 lbs.	Drill or Broadcast	2 to 4 tons hay	2000 to 3000
" Buckwheat.....	45 lbs.	Drill	Cover crop	1500
" Flax.....	30 lbs.	Drill	Fiber	2500
" Oats.....	80 lbs.	Drill or Broadcast	3 tons hay	2000
" Rice.....	80 lbs.	Drill		3000
" Rye.....	60 lbs.	Drill	Pasture or cover crop	2000
" Wheat.....	60 lbs.	Drill or Broadcast	2 tons	2000
Grasses—Bermuda.....	5 lbs.	Broadcast	Pasture	
" Brome.....	20 lbs.	Broadcast	Pasture mixture	
" Fescue.....	20 lbs.	Broadcast	Pasture Mixture	
" Italian Rye.....	30 lbs.	Broadcast	Hay and pasture (damp land)	
" Kentucky Blue.....	50 lbs.	Broadcast	Pasture Mixture	
" Orchard.....	25 lbs.	Broadcast	Pasture Mixture	
" Paspalum.....	10 lbs.	Broadcast	Cut 1 1/2 tons per acre 4 times (damp land)	
" Perennial Rye.....	20 lbs.	Broadcast	Hay and Pasture	
" Red Top.....	14 lbs.	Broadcast	Pasture Mixture	
" Rhodes.....	12 lbs.	Broadcast	Cut 2 tons per acre 3 times or pasture	
" Smilo.....	6 lbs.	Broadcast	Hay or pasture	
Sudan.....	5 to 25 lbs.	Drill 5 or broadcast 25	12 tons hay or pasture	
Sorghum.....	8 lbs.	Drill in rows 30 in. apart	15 tons green	
Sunflower.....	5 lbs.	Drill in rows 3 ft. apart		2000
Vetch.....	30 to 40 lbs.	Drill in rows 1 ft. apart or broadcast	Pasture or cover crop	
Wonder Forage.....	5 to 25 lbs.	Drill 5 or broadcast 25	12 tons hay or pasture	

NAMES OF VEGETABLES IN FOREIGN LANGUAGES

English	French	Italian	Polish	German	Spanish	Scandinavian
Asparagus.....	Asperge	Sparaglio	Szparagi	Spargel	Esparrago	Asparges
Beans.....	Haricots	Fagioli	Fasola	Bohnen	Habichuela	Boenner
Beet.....	Betterave	Barbabetola	Buraki	Rube	Remolacha	Roedbede
Cabbage.....	Chou	Cavolo Cappuccio	Kapusta	Kopfkohl	Col repello	Kaal
Carrot.....	Carotte	Carota	Marchew	Carotten	Zanahoria	Gulerod-Karroter
Cauliflower.....	Chou-fleur	Cavolfiore	Kalafiory	Blumenkohl	Coliflor	Blomkaal
Celery.....	Celeri	Sedano	Selery	Sellerie	Apio	Selleri
Corn.....	Mais	Mais	Kukurydza	Mais	Maiz	Mais
Cucumber.....	Concombre	Cetriolo	Ogorek	Gurken	Cohombro	Agurk
Dandelion.....	Dandelion	Dente di leone	Papawa	Lowenzahn	Diente de leon	Loevetand
Eggplant.....	Aubergine	Petronciano	Gruszka	Eierpfanze	Berengena	Egplante
Endive.....	Chicoree	Endiva	Endyvia	Endivien	Endivia	Endivie
Kale.....	Chou vert	Cavolo verde	Solanka	Blatterkohl	Breton, Berza	Groenkaal
Kohlrabi.....	Chou-rave	Cavolo rapa	Kalarepa	Knollkohl	Col Rabano	Kaalrabi
Leek.....	Poireau	Porro	Pory	Porree	Puerro	Purre
Lettuce.....	Laitue	Lattuga	Salapa	Salad	Lechuga	Salat
Melon, Musk.....	Melon	Popone	Melon	Melone	Melon	Melon
Melon, Water.....	Melon d'eau	Melone d'aqua	Melon, Wodny	Wasser-Melone	Sandia	Vandmelon
Mushroom.....	Champignon	Fungo Pratajolo	Grzyb	Schwamm	Seta	Champignon
Okra.....	Gombaud	Ocra		Ocher	Gombo	Hibiskus
Onion.....	Ognon	Cipollo	Cebula	Zwiebel	Cebolia	Roedloeg
Parsley.....	Persil	Prezzemolo	Pietruszka	Petersilie	Perejil	Persille
Parsnip.....	Panais	Pastinaca	Pasternak	Pastinake	Chirivia	Pastinak
Peas.....	Pois	Pisello	Groch	Erbsen	Guisante	Erter
Pepper.....	Piment	Peperone	Pieprz	Pfeffer	Pimiento	Spansk Peper
Pumpkin.....	Potiron	Zucca	Rania	Melonen-Kurbiss	Calabaza Tonanera	Graeskar
Radish.....	Radis	Ravanello	Rzodkiew	Radies	Rabanito	Reddik-Radis
Salsify.....	Salsifis	Sassefrica	Jarzy Ostryga	Haferwurzel	Salsifi	Havrerod
Spinach.....	Epinard	Spinace	Szpinak	Spinat	Espinace	Spinat
Squash.....	Courge	Zucca	Miekurz	Kurbiss	Calabaza	Squash-graeskar
Swiss Chard.....	Poirée	Bieta		Beisskohl	Bleda	Blad bede
Tomato.....	Tomate	Pomo d'oro	Pomidor	Leibesanel	Tomate	Tomat
Turnip.....	Navet	Navone	Rzena brukiew	Weisse-Rube	Nabo	Turnips

INDEX

- Abronia33
 Abutilon33
 Achillea33
 Acme Sprays83
 Aconitum33
 Acroclonium33
 Adonis33
 African Golden Daisy44
 African Lilac Daisy34
 Agatheia33
 Ageratum34
 Agrostemma33
 Alfalfa77
 Alfilaria80
 All-Round Spray88
 Alyssum33
 Alonsoa33
 Alsike77
 Amaranthus33
 Ampelopsis34
 Anagallis34
 Anchusa Italica34
 Anemone34
 Anthemis34
 Antigonon Leptopus74
 Antirrhinum35
 Ant Poison85
 Aquilegia34
 Arabis34
 Arctotis Grandis34
 Armoria34
 Arsenate of Lead83
 Artichokes1
 Asclepias34
 Asparagus1
 Asparagus Fern34
 Asters36-37
 Aubrieta35
 Auricula—see Primula
 Australian Pea Vine35
 Australian Rye Grass31-80
 Baby Blue Eyes (see Nemophila)
 Baby's Breath (see Gypsophila)
 Bachelor Button (see Centaurea)
 Bacteria82
 Bait—M83
 Balloon Vine39
 Balsam37
 Balsam Apple37
 Barley79
 Barrel Pumps86
 Bartonina39
 Beans2-3
 Beans, Commercial3-78
 Beets4
 Begonia Seed38
 Begonia Tubers74
 Bellis Perennis39
 Bent Grass31
 Bermuda Grass80
 Bidsen39
 Bird Supplies92
 Blackberries75
 Black Eyed Susan (see Thunbergia)
 Black Leaf "40"84
 Blue Grass31
 Blue Lace Flower (see Didiscus)
 Blue Stone84
 Boltonia39
 Books22
 Bordo Mixture83
 Boston Ivy (see Ampelopsis)
 Brachycome39
 Brassica alba78
 Broccoli1
 Brome Grass80
 Broom Corn79
 Browallia39
 Brussels Sprouts1
 Buckwheat79
 Buhach Powder91
 Burning Brush (see Kochia)
 Cabbage5-6
 Cactalia39
 Cactus41
 Calceolaria40
 Calendar for Planting 94-95
 Calendula39
 Calif. Poppy45
 Calif. Tree Poppy (see Romneya)
 Calif. Windbreak40
 Calliopsis41
 Campanula40
 Canary Bird Vine41
 Candytuft39
 Cane76
 Canna Bulbs69
 Canterbury Bells40
 Caponizing Sets91
 Carbon Bi-Sulphide85
 Cardinal Climber41
 Carnation40
 Carrots6
 Casaba16
 Castor Bean (see Ricinus)
 Catananche40
 Cat Supplies93
 Cauliflower7
 Celery10
 Celeriac10
 Celosia40
 Centaurea41
 Cerastium41
 Chard, Swiss4
 Chayote10
 Cheiranthus41
 Chewings Fescue80
 Chicory11
 Chinese Lantern (see Physalis)
 Chives11
 Chrysanthemum, Annual (see Painted Daisy)
 Cineraria42
 Citron17
 Clarkia41
 Cleome41
 Clanthus41
 Clover Cutters91
 Clover77-78
 Clover, White31
 Cobaea, Scandens40
 Cockscorn40
 Coix Lachrymae41
 Coleus42
 Collards6
 Collinsia42
 Columbine34
 Commelina42
 Convolvulus (see Morning Glory)
 Coreopsis42
 Corn, Field79
 Corn, Pop8
 Corn, Sweet8
 Corn, Planters88
 Cornflower (see Centaurea)
 Cosmos42
 Cover Crops78
 Covers, Plant75
 Cow Peas78
 Crepis43
 Cress11
 Cucumber9
 Cyanogas86
 Cyclamen42
 Cynoglossum43
 Cypress Vine43
 Dahlias70-71
 Dahlia Seed43
 Daisy, Double39
 Daisy, Shasta44
 Dallas Grass80
 Datura43
 Delphinium43
 Destruxol84
 Dianthus44
 Didiscus44
 Digitalis44
 Dimorphotheca44
 Diversol91
 Dog Supplies93
 Dolichos44
 Dusters, Sulphur87
 Dusty Miller44
 Egg Boxes91
 Egg Carrier91
 Egg Plant11
 Egg Scales90
 Egg Tester91
 Egyptian Corn76
 Endive11
 Erigeron44
 Erygium44
 Eschscholtzia45
 Euphorbia44
 Evening Primrose (see Oenothera)
 Everlasting Flowers44
 Everlasting Peas (see Lathyrus)
 Evergreen84
 Fennel11
 Fertilizers31-81-82
 Feterita76
 Fish Food92
 Fever Few (see Matricaria)
 Flower Classification32
 Forget-Me-Not44
 Founts90
 Four o'Clock44
 Foxglove (see Digitalis)
 Freesia41
 Fruit Pickers88
 Fungusol84
 Gaillardia46
 Gamolepis46
 Garden Guard83
 Gerbera46
 Germozone89
 Geum46
 Gilla46
 Gladiolus Bulbs68-69
 Glaucium46
 Gloves, Garden88
 Gloxinia46
 Godetia47
 Gomphrena46
 Gopher Exterminators92
 Gourds12
 Grafting Wax88
 Grasses, Field80
 Grasses, Lawn31
 Gypsophila45
 Gypsum82
 Harding Grass80
 Helianthus (see Sunflower)
 Helichrysum47
 Heliotrope47
 Herbs12
 Heuchera47
 Hibiscus47
 Hollyhocks47
 Honesty (see Lunaria)
 Hotkaps75
 Humulus47
 Hunnemannia48
 Hyacinth Beans (see Dolichos)
 Hydrated Lime82-85
 Ice Plant48
 Impatiens47
 Ipomoea48
 Ipomoea Quamoclit (see Cypress Vine)
 Insecticides83-84-85
 Jacobaea48
 Jap. Hop (see Humulus)
 Job's Tears (see Coix Lachrymae)
 Kale12
 Kalol84
 Kenilworth Ivy48
 Killing Knives91
 Kochia48
 Kohl Rabi12
 Kudzu Vine48
 Labels, Pot and Tree88
 Lantana48
 Larkspur49
 Larkspur Perennial (see Delphinium)
 Lathyrus48
 Lavatera48
 Lavatera Assur-gentiflora40
 Lawn Grass31
 Leaf Mold81
 Leek12
 Leg Bands90
 Leptosiphon48
 Leptosyne48
 Lettuce13
 Lilium Regale Seed49
 Lily Bulbs74
 Lime82-85
 Lime Sulphur83
 Linaria48
 Linum48
 Lobelia49
 Loganberries75
 Loma81
 London Purple83
 Love-in-a-Mist (see Nigella)
 Lunaria49
 Lupin49
 Marigold50
 Master Plant Setters88
 Mathiola Bicornis50
 Matricaria50
 McQueen's Inoculator82
 Melons, Casaba16
 Melons, Musk14-15
 Melons, Water16-17
 Melon Covers75
 Melilotus Alba77-78
 Melilotus Indica78
 Mesembryanthemum (see Ice Plant)
 Mexican Tulip Poppy (see Hunnemannia)
 Michaelmas Daisy37
 Mignonette50
 Millet80
 Milo Maize76
 Mimulus50
 Mina Lobata50
 Mirabilis (see Four o'Clock)
 Monk's Hood (see Aconitum)
 Moonflower (see Ipomoea)
 Morning Glory50
 Moss88
 Moss Rose (see Portulaca)
 Mourning Bride (see Scabiosa)
 Mushrooms20
 Musk (see Mimulus)
 Mustard20-78
 Myosotis (see Forget-Me-Not)
 Nasturtium51
 Nemesis51
 Nemophila51
 Nepeta51
 Nico Dust84
 Nicotiana51
 Nigella51
 Night Scented Stock (see Mathiola)
 Nod-O-Gen82
 Oats79
 Oenothera51
 Okra20
 Onion18-19
 Onion Sets19
 Orchard Grass80
 Pacey's Rye80
 Pacific Rye Grass80
 Painted Daisy51
 Pan-a-min89
 Pansy52
 Paris Green83
 Parsley20
 Parsnip24
 Passiflora52
 Peanuts23
 Peas, Garden21
 Peas, Field78
 Peat, Humus81
 Peat Moss81
 Pentstemon51
 Pepper22-23
 Petunia54
 Phacelia53
 Phlox53
 Physalis Franchetti53
 Physostegia52
 Pigeon Bands90
 Pinks (see Dianthus)
 Plant Covers75
 Planting Calendar94-95
 Plants Setter83
 Poa Trivialis31
 Polemonium (see Primula)
 Poppy55
 Portulaca53
 Potatoes, Irish25
 Potato Fertilizer25
 Pots, Planting88
 Poultry Remedies89
 Primula53
 Protectors, Tree88
 Pruning Compound85
 Pumpkin24
 Punctures, Poultry90
 Pyrethrum53
 Radish26
 Raffia88
 Ranunculus Seed56
 Rape80
 Raspberries75
 Rat Poison92
 Red Hot Poker (see Tritoma)
 Red Top Grass80
 Rhodantha56
 Rhodes Grass80
 Rhubarb26
 Ricinus50
 Rock Gardens59
 Romneya56
 Roselle25
 Roses72-73
 Rudbeckia56
 Rutabaga30
 Rye79
 Rye Grass31-80
 Salpiglossis56
 Salsify27
 Salvia56
 Saponaria56
 Scabiosa57
 Scarlet Flax (see Linum)
 Scarlet Runner56
 Schizanthus57
 Seaside Bent Grass31
 Seeders87-88
 Semes85
 Sensitive Plant57
 Sesbania78
 Shasta Daisy44
 Sheep Manure81
 Sidalcea57
 Silene57
 Smilax57
 Snail Remedy85
 Snapdragon35
 Soap, Spray83-84
 Soil Renovators78
 Solanum57
 Sorghums76
 Sow Bug Control85
 Spinach27
 Sprayers86-87
 Squash28
 Squirrel Exterminators85
 Stachys Lanata57
 Statice58
 Stevia58
 Stocks58
 Stock Tonic89
 Stokesia59
 Strawberries75
 Straw Flower (see Helichrysum)
 Sudan Grass77
 Sulphur82-83-84
 Sunflower59-80
 Swan River Daisy (see Brachycome)
 Sweet Peas60-61
 Sweet William59
 Sweet Wivelsfield44
 Swiss Chard4
 Tagetes59
 Thalictrum59
 Thunbergia59
 Tigridia74
 Tithonia62
 Tobacco27
 Tobacco Stems85
 Tobacco, Flowering (see Nicotiana)
 Tomato29-30
 Torenia59
 Trachelium59
 Transplanter88
 Transval Daisy (see Gerbera)
 Traps92
 Tree Protectors88
 Tree Seeds65-66-67
 Tree Tanglefoot84
 Tritoma59
 Trumpet Flower (see Datura)
 Tuberosa Bulbs74
 Tunica59
 Tufted Pansies (see Viola)
 Turnip30
 Valeriana62
 Velvet Plant Food31-81
 Verbena62
 Vetch78
 Vinca62
 Viola Cornuta62
 Violet62
 Virginia Creeper (see Ampelopsis)
 Virginian Stocks62
 Volk84
 Wallflower62
 Waterlilies67
 Weather-proof Pencils88
 Wheat79
 Wigandia62
 Wild Cucumber62
 Wildflower Mixture64
 Wisteria62
 Wonder Forage77
 Xeranthemum62
 Youngberries75
 Zephyranthes74
 Zinnia63-64

LOS ANGELES, CALIF.

280 Main St., Watsonville, Calif.

(OVER)

[illegible]

A & M Planting Calendar for Southern California and Similar Climates

JANUARY

VEGETABLES—Seeds of Asparagus, Beets, Brussels Sprouts, Cabbage, Carrots, Cress, Egg Plant, Endive, Kale, Kohl Rabi, Lettuce, Mustard, Onions, Parsley, Peas, Peppers, Potatoes, Radish, Rhubarb, Salsify, Spinach (Winter), Swisschard, Tomatoes, Turnips.

FLOWERS—Sow seeds in open ground: *Acroclinium*, *Alyssum*, *Bartonia*, *Calendula*, *Calliopsis*, *Candytuft*, *Centaurea*, *Annual Chrysanthemums*, *Clarkia*, *Godetia*, *Lupin*, *Mignonette*, *Nigella*, *Poppies*, *California Poppy*, *Scabiosa*, *Schizanthus*, *Wild Flower Mixture*, *Sweet Peas*, also *Lawn Grasses*.

Sow in seed flats—*Aquilegia*, *Delphinium*, *Larkspur*, *Phlox*, *Snapdragon*.

BULBS of *Amaryllis*, *Agapanthus*, *Caladium*, *Gladiolus*, *Lilliums*, *Narcissus*, *Ranunculus*, *Tuberose*, *Tuberous Begonia*.

FEBRUARY

VEGETABLES—Seeds of Asparagus, Beets, Beans, Cabbage, Carrots, Celery, Chervil, Egg Plant, Kale, Kohl Rabi, Lettuce, Mustard, Onions, Parsnip, Peas, Peppers, Potatoes, Radish, Rhubarb, Salsify, Spinach (Summer), Squash, Swisschard, Tomatoes, Turnips.

FLOWERS—Sow seeds in open ground: *Acroclinium*, *African Daisy*, *Alyssum*, *Bartonia*, *Calendula*, *Calliopsis*, *Candytuft*, *Centaurea*, *Clarkia*, *Early Flowering Cosmos*, *California Poppy*, *Dahlia*, *Gypsophila*, *Hunneemannia*, *Larkspur*, *Linaria*, *Linum*, *Lupins*, *Mignonette*, *Nasturtium*, *Nemophila*, *Nigella*, *Poppies*, *Phlox*, *Salpiglossis*, *Schizanthus*, *Scabiosa*, *Sweet Peas*, *Wildflower Mixture*, also *Lawn Grasses*.

Sow in seed flats—*Agathe*, *Ageratum*, *Asters*, *Aquilegia*, *Begonia*, *Coreopsis*, *Delphinium*, *Gaillardia*, *Godetia*, *Hollyhock*, *Lobelia*, *Myosotis*, *Nemesia*, *Pentstemon*, *Petunia*, *Perennial Poppies*, *Shasta Daisy*, *Stocks* and *Viola Cornuta*.

BULBS of *Amaryllis*, *Caladium*, *Cannas*, *Gladiolus*, *Lilliums*, *Tuberose*, *Tuberous Begonia*.

MARCH

VEGETABLES—Seeds of Asparagus, Beets, Beans, Cabbage, Carrots, Casaba, Corn, Cucumbers, Egg Plant, Kale, Lettuce, Melons, Okra, Onion, Onion Sets, Parsley, Parsnip, Peas, Potatoes, Pumpkin, Radish, Roselle, Salsify, Spinach (Summer), Squashes, Tomatoes.

FLOWERS—Sow seeds in open ground: *Acroclinium*, *Ageratum*, *Alyssum*, *Arctotis*, *Amaranthus*, *Balsam*, *Bartonia*, *Brachycome*, *Calendula*, *Calliopsis*, *Candytuft*, *Celosia*, *Centaurea*, *Clarkia*, *Dahlia*, *Painted Daisy*, *Early Flowering Cosmos*, *Dahlia Seed*, *Daisies*, *Four o'Clocks*, *Godetia*, *Gomphrena*, *Gypsophila*, *Helichrysum*, *Hunneemannia*, *Kochia*, *Larkspur*, *Linum*, *Lupin*, *Margold*, *Mignonette*, *Nasturtium*, *Nemophila*, *Nigella*, *Phlox*, *Salpiglossis*, *Scabiosa*, *Schizanthus*, *Sunflower*, *Sweet Peas*, *Vine Seeds*, also *Lawn Grasses*.

Sow in seed flats—*Aquilegia*, *Asters*, *Begonia*, *Bellis*, *Canterbury Bells*, *Carnation*, *Coleus*, *Coreopsis*, *Daisy*, *Delphinium*, *Didiscus*, *Gaillardia*, *Gerbera*, *Geum*, *Heliotrope*, *Lobelia*, *Matricaria*, *Nemesia*, *Nicotiana*, *Pentstemon*, *Petunia*, *Salvia*, *Shasta Daisy*, *Statice*, *Stocks*, *Sweet William*, *Verbena*, *Viola*, *Wallflower*, *Vine Seeds*.

BULBS of *Caladium*, *Cannas*, *Dahlia*, *Gladiolus*, *Tuberose*.

APRIL

VEGETABLES—Seeds of Asparagus, Beets, Beans, Carrots, Casaba, Cabbage, Celery, Corn, Cucumber, Egg Plant, Kale, Lima Beans, Lettuce, Melons, Okra, Onions, Parsley, Parsnip, Peppers, Potatoes, Pumpkin, Radish, Salsify, Spinach (Summer), Squash, Tomatoes, Sweet Potato Plants.

FLOWERS—Sow in open ground: *Abronia*, *Acroclinium*, *Ageratum*, *Amaranthus*, *Arctotis*, *Grandis*, *Balsam*, *Candytuft*, *Calendula*, *Calliopsis*, *Celosia*, *Centaurea*, *Early Cosmos*, *Dahlia Seed*, *Gypsophila*, *Helichrysum*, *Hunneemannia*, *Kochia*, *Larkspur*, *Mathiola*, *Mignonette*, *African Marigold*, *Nigella*, *Nicotiana*, *Nasturtium*, *Oenothera*, *Painted Daisy*, *Petunia*, *Portulaca*, *Phlox Drumondii*, *Rhodantha*, *Salpiglossis*, *Scabiosa*, *Sunflower*, *Valeriana*, *Verbena*, *Wallflower*, *Zinnia*, *Vine Seeds*, also *Lawn Grasses*.

Sow in seed flats—*Asters*, *Carnation*, *Delphinium*, *Didiscus*, *Geum*, *Gerbera*, *Lobelia*, *African Marigold*, *Nicotiana*, *Petunia*, *Primula*, *Salvia*, *Statice*, *Stocks*, *Verbena*.

BULBS of *Cannas*, *Caladiums*, *Dahlia*, *Gladiolus* and *Tuberose*.

MAY

VEGETABLES—Seeds of Asparagus, Beets, Beans, Cabbage, Carrots, Casaba, Celery, Cucumber, Lima Beans, Melons, Okra, Onions, Parsley, Parsnip, Peppers, Pumpkin, Radish, Rhubarb, Salsify, Spinach (Summer), Squash, Tomato, Sweet Potato Plants.

FLOWERS—Sow in open ground: *Abronia*, *Ageratum*, *Alyssum*, *Amaranthus*, *Arctotis*, *Grandis*, *Balsam*, *Candytuft*, *Calliopsis*, *Cosmos*, *Celosia*, *Centaurea*, *Gypsophila*, *Helichrysum*, *Hunneemannia*, *Larkspur*, *African Marigold*, *Mignonette*, *Nasturtium*, *Nigella*, *Oenothera*, *Phlox*, *Drumondii*, *Painted Daisy*, *Portulaca*, *Salpiglossis*, *Scabiosa*, *Stevia*, *Sunflower*, *Zinnia*, *Vine Seeds*, also *Lawn Grasses*.

Sow in seed flats—*Asters*, *Carnation*, *Delphinium*, *Dianthus*, *Gaillardia*, *Geum*, *Gomphrena*, *Lobelia*, *Matricaria*, *Nicotiana*, *Petunia*, *Salvia*, *Schizanthus*, *Statice*.

BULBS of *Canna*, *Dahlia*, *Gladiolus*.

JUNE AND JULY

VEGETABLES—Seeds of Beets, Beans, Cabbage, Carrots, Casaba, Celery, Corn, Cucumber, Egg Plant, Melons, Okra, Parsley, Parsnip, Pepper Plants, Potatoes, Pumpkin, Radish, Spinach (Summer), Tomato.

FLOWERS—Sow seeds in the open ground: *Calendula*, *Candytuft*, *Late Cosmos*, *Centaurea*, *Daisies*, *Gypsophila*, *African Marigold*, *Nasturtium*, *Phlox*, *Portulaca*, *Salpiglossis*, *Zinnia*, *Vine Seeds*.

Sow in seed flats—*Cineraria*, *Delphinium*.

BULBS of *Gladiolus*.

AUGUST

VEGETABLES—Beets, Beans, early varieties, Brussels Sprouts, Cabbage, Cauliflower, Carrots, Corn, Cucumber, Egg Plant, Endive, Kale, Kohl Rabi, Leek, Mustard, Onion, Parsley, Parsnip, Pepper, Potatoes, Radish, Salsify, Spinach (Summer), Tomatoes, Turnips.

FLOWERS—Sow seeds in open ground: *Calendula*, *Centaurea*, *Early Cosmos*, *Gypsophila*, *Winter Flowering Sweet Peas*, *French Marigold*, *Nasturtium*, *Phlox*, *Salpiglossis*, *Zinnia*.

Sow in seed flats—*Aquilegia*, *Carnation*, *Canterbury Bells*, *Coreopsis*, *Cineraria*, *Delphinium*, *Digitalla*, *Forget-Me-Not*, *Gaillardia*, *Hollyhock*, *Pansy*, *Pentstemon*, *Perennial Poppies*, *Phlox*, *Shasta Daisy*, *Snapdragon*, *Stocks*, *Verbena*, *Viola*, *Wallflower*.

BULBS of *Calla*, *Freesia*, *German Iris*, *Gladiolus*, *Ornithogalum*, *Oxalis*, *Ranunculus*.

SEPTEMBER

VEGETABLES—Seeds of Beets, Beans, Brussels Sprouts, Cabbage, Carrots, Cauliflower, Cucumber, Egg Plant, Endive, Kale, Kohl Rabi, Leek, Lettuce, Mustard, Onions, Onion Sets, Parsley, Parsnip, Peas, Peppers, Potatoes, Radish, Salsify, Spinach (Winter), Squash, Tomatoes, Turnips.

FLOWERS—Sow seeds in open ground of *Bartonia*, *Calendula*, *Centaurea*, *Early Cosmos*, *Dimorphotheca*, *Gypsophila*, *French Marigolds*, *Larkspur*, *Linum*, *Nasturtium*, *Nemesia*, *all Poppies*, *Salpiglossis*, *Winter Sweet Peas*, *Wildflower Mixture*.

Sow in seed flats—*Aquilegia*, *Carnation*, *Canterbury Bells*, *Coreopsis*, *Cineraria*, *Daisies*, *Delphinium*, *Digitalla*, *Forget-Me-Not*, *Gaillardia*, *Geum*, *Hollyhock*, *Pansy*, *Petunia*, *Pentstemon*, *Phlox*, *Pyrethrum*, *Scabiosa*, *Snapdragon*, *Stocks*, *Verbena*, *Viola*, *Wallflower*.

BULBS of *Allium*, *Anemone*, *Baby Glads*, *Calla*, *Dutch and German Iris*, *Freesia*, *Gladiolus*, *Lilium Candidum*, *Ornithogalum*, *Oxalis*, *Ranunculus*, *Watsonia*.

OCTOBER AND NOVEMBER

VEGETABLES—Seeds of Beets, Brussels Sprouts, Cabbage, Carrots, Cauliflower, Cress, Endive, Kale, Kohl Rabi, Leek, Lettuce, Mustard, Onions, Onion Sets, Parsley, Parsnip, Peas, Radish, Salsify, Spinach, Turnips.

FLOWERS—Sow seeds in open ground: *Acroclinium*, *Alyssum*, *Bartonia*, *Candytuft*, *Calendula*, *Centaurea*, *Clarkia*, *California Poppy*, *Dimorphotheca*, *French Marigolds*, *Godetia*, *Gypsophila*, *Larkspur*, *Linum*, *Lupin*, *Mignonette*, *Nemesia*, *Nemophila*, *Nigella*, *Painted Daisy*, *All Poppies*, *Ranunculus seed*, *Schizanthus*, *Winter Flowering Sweet Peas*, *Wild Flower Mixture*, also *Lawn Grasses*.

Sow in seed flats—*Aquilegia*, *Canterbury Bells*, *Carnation*, *Coreopsis*, *Double Daisy*, *Delphinium*, *Digitalla*, *Forget-Me-Not*, *Gerbera*, *Gaillardia*, *Geum*, *Hollyhock*, *Pansy*, *Pentstemon*, *Petunia*, *Phlox*, *Pyrethrum*, *Scabiosa*, *Shasta Daisy*, *Snapdragon*, *Stocks*, *Sweet William*, *Verbena*, *Viola*, *Wallflower*.

BULBS of *Anemones*, *Amaryllis*, *Baby Glads*, *Callas*, *Crocus*, *Dutch and German Iris*, *Freesias*, *Hyacinths*, *Ixias*, *Narcissus*, *Native California Bulbs*, *Oxalis*, *Ranunculus*, *Spanish Iris*, *Sparaxis*, *Tulips*, *Watsonias*, *Easter Lilies*, *Montbretias*.

DECEMBER

VEGETABLES—Seeds of Beets, Brussels Sprouts, Cabbage, Cauliflower, Cress, Endive, Kale, Kohl Rabi, Leek, Lettuce, Mustard, Onions, Onion Sets, Parsley, Parsnips, Peas, Potatoes, Radish, Salsify Spinach (Winter), Turnips.

FLOWERS—Sow seed in open ground: *Acroclinium*, *Alyssum*, *Bartonia*, *Calendula*, *Candytuft*, *Calliopsis*, *Clarkia*, *Annual Chrysanthemums*, *California Poppy*, *Dianthus*, *Lupin*, *Mignonette*, *Nigella*, *Nemesia*, *Poppies*, *Standard Sweet Peas*, *Schizanthus*, *California Wild Flowers*, also *Lawn Grasses*.

Sow in seed flats—*Aquilegia*, *Larkspur*, *Pansy*, *Phlox*, *Snapdragon*, *Stocks*.

BULBS of *Amaryllis*, *Callas*, *Gladiolus*, *Hyacinths*, *Narcissus*, *Ranunculus*, *Tulips*, *Lilies*.

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SEEDS